International Differences in Employee Silence Motives: Scale Validation, Prevalence, and Relationships with Culture Characteristics across 33 Countries

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Abstract

Employee silence, the withholding of work-related ideas, questions, or concerns from someone who could effect change, has been proposed to hamper individual and collective learning as well as the detection of errors and unethical behaviors in many areas of the world. To facilitate cross-cultural research, we validated an instrument measuring four employee silence motives (i.e., silence based on fear, resignation, prosocial, and selfish motives) in 21 languages. Across 33 countries ($N = 8{,}222$) representing diverse cultural clusters, the instrument shows good psychometric properties (i.e., internal reliabilities, factor structure, measurement invariance). Results further revealed similarities and differences in the prevalence of silence motives between countries, but did not necessarily support cultural stereotypes. To explore the role of culture for silence, we examined relationships of silence motives with the societal practices cultural dimensions from the GLOBE Program. We found relationships between silence motives and power distance, institutional collectivism, and uncertainty avoidance. Overall, the findings suggest that relationships between silence and cultural dimensions are more complex than commonly assumed. We discuss the explanatory power of nations as (cultural) units of analysis, our social scientific approach, the predictive value of cultural dimensions, and opportunities to extend silence research geographically, methodologically, and conceptually.

In many countries, media reports and research emphasize that inefficacies, unethical practices, errors, and safety issues endure because employees withhold their views, questions, ideas, and concerns (e.g., Allard-Poesi & Hollet-Haudebert, 2017; Gibson & Singh, 2003; Joshi, 2016; Maree, 2016; Sheriff, 2000). Highly visible cases include fraud in the automotive industry, harassment in the entertainment industry, the military, and sports teams, misconduct in law enforcement, abuse of children and older people in educational, caring, and religious institutions, and bullying in health services (e.g., DJI, 2015; Ewing & Bowley, 2015; NHS, 2017; Prasad, 2018; United Nations, 2014; WHO, 2002). Besides these cases covered by the media, there is evidence that on a monthly, weekly, or even daily basis, many employees encounter situations in which they think that something should be addressed, but rarely speak up, hampering individual and collective effectiveness, development, and well-being (e.g., Knoll et al., 2019; Maxfield, 2016; Morrison & Milliken, 2000; Pinder & Harlos, 2001).

Despite an increased interest in these issues in many regions of the world, no systematic attempts exist to integrate international research on employee silence, and approaches to silence differ in their stage of conceptual and methodological development (e.g., Knoll et al., 2016; Morrison, 2014; Sherf et al., 2020). While diversity in approaches is valuable at early stages of theoretical development, when a concept matures and is to be applied in practice, research advances by comparability of assessment and findings (Edmondson & McManus, 2007). In addition, while culture and communication are interwoven (Lehman et al., 2004; Merkin et al., 2014), little systematic knowledge is available to explain how the specifics of culture may affect employees' motives for withholding their views. Conceptual articles proposed that cultural differences may exist regarding employees' tendency and motivation to express or withhold their views (Kwon & Farndale, 2020; Morrison, 2014), but very few studies have examined employee silence in more than one country. To advance understanding of employee silence as an international organizational challenge (George et al., 2016), to integrate conceptual developments in diverse disciplines,

and to address a lack of empirical research, we conducted a large-scale study examining employee silence in diverse cultural regions.

Our study contributes to the literature in three important ways. First, we adapt an established instrument for assessing differentially motivated silence types (i.e., silence based on fear, resignation, prosocial, and opportunistic motives; Knoll & van Dick, 2013) to 21 languages, and examine the scales' psychometric properties (i.e., internal consistency, factor structure, measurement invariance) in samples from 33 countries. Second, to advance understanding of the link between culture and employee silence, we examine whether approaches developed to differentiate between national cultures can be applied to explain international differences and similarities in the prevalence of silence motives. Specifically, we propose and test links between silence motives and societal practices dimensions from the Global Leadership and Organizational Behavior Effectiveness (*GLOBE*) research program framework (House et al., 2004) – an established approach to characterize cultural influences on organizational behavior (Dorfman et al., 2014; Urbach et al., 2020). Our study offers a rare opportunity to examine the relationship between culture and silence, because it provides sufficient variance in cultural variables of interest, minimizes context effects, and allows for examining cultural differences at the level at which they occur (Spector et al., 2015; Tsui et al., 2007). Third, based on our findings, we discuss the limitations of nations as (cultural) units of analysis and our social scientific approach, and we propose opportunities to extend silence research geographically, methodologically, and conceptually.

We hope that our research facilitates international attempts to overcome the detrimental effects of silence. Besides, it shall help scholars and practitioners to address communication challenges that organizations face when employing an international workforce, collaborating with partners in different countries, staffing culturally diverse teams, assigning expatriates, and attempting to transfer participation schemes to acquired international branches (Lewin, 2015; Tung & Stahl, 2018).

Theoretical Background and Research Questions

Employee Silence and Its Underlying Motives

Addressing issues and expressing ideas and concerns (i.e., voice) is a way to express oneself and can lead to improved (e.g., more efficient and less harmful) circumstances at work, and may even increase one's status within the group (e.g., Chamberlin et al., 2018; Jetten & Hornsey, 2014; Weiss & Morrison, 2019). However, voice also exposes those who speak out, challenges the authority and judgment of others, disrupts routines and the smooth operation of groups which, in turn, potentially threatens relationships, group harmony, and status hierarchies (Brinsfield et al., 2009; van Dyne et al., 1995). Due to these potential costs of speaking out and speaking up, there are several reasons that motivate employees to remain silent (for recent reviews, see Knoll et al., 2016; Morrison, 2014; Sherf et al., 2020).

Four of the most prominent silence motives are subject of our study. First, studies have shown that employees remain silent at work due to a fear that speaking up may have negative effects on their career, damage relationships, or lead to being labelled as a "troublemaker" by superiors or colleagues (Kish-Gephardt et al., 2009; Milliken et al., 2003). This phenomenon has been called *quiescent silence* (Pinder & Harlos, 2001). While research on whistleblowing and retaliation shows that these fears are not unreasonable (Cortina & Magley, 2003; Miceli et al., 2008), remaining silent due to a fear of speaking up comes with a price as well, namely, high-arousal negative affect and increased exhaustion and depersonalization (Kirrane et al., 2017; Knoll et al., 2019). Second, Pinder and Harlos (2001) suggested that besides silence that is based on fear employees withhold their views because they think that speaking up will not make a difference and that potential recipients are not responsive or interested in the particular issue. This type of silence labelled *acquiescent silence* by Pinder and Harlos, is also accompanied by negative affect but with a lower arousal level compared to quiescent silence, bearing similarities to the state of learned helplessness (Kirrane et al., 2017; Seligman, 1975).

Subsequent research emphasized the relevance of prosocial and selfish motives for the occurrence of silence in organizations (for more extensive typologies, see Bies, 2009; Brinsfield, 2013; Kurzon, 2007). A third type of silence, *prosocial silence*, suggests that employees withhold their views to protect or not to embarrass their superiors, colleagues, or a specific group (e.g., organization, profession; van Dyne et al., 2003). Prosocial silence differs from quiescent and acquiescent silence in that it is accompanied by positive emotions and the intention to benefit others. However, it does not exclude negative emotions such as shame, sadness, and fear (Kirrane et al., 2017). Thus, prosocial silence is more complex than other silence types (Perlow & Repenning, 2009). This might be one reason for the divergent and in part ambivalent relationships with other constructs such as health, job satisfaction, and voice opportunities (Knoll & van Dick, 2013), as well as its association with both positive and negative outcomes (Umphress et al., 2010). Finally, a fourth type of silence, *opportunistic silence*, has been introduced to consider the fact that silence is, at times, based on rather selfish motives, such as the intention of protecting a knowledge advantage or avoiding additional workload (Knoll & van Dick, 2013). Opportunistic silence has its roots in the literatures on knowledge hiding, knowledge hoarding, and counterproductive work behaviors (Connelly et al., 2019; Evans et al., 2015) and is rather negatively connoted.

National Culture and International Differences in Employee Silence

Culture can be defined as a set of shared beliefs, values, norms, meanings, and practices that have been learned while societies solved problems of external adaptation (e.g., dealing with external threats and securing resources) and internal regulation (e.g., how power and status are distributed and how conflicts are resolved; Schein, 2017). Shared patterns of social behavior and thinking are transmitted through social institutions and artefacts such as schools, hierarchies, laws, and reward systems which, in turn, shape and justify individual and group beliefs and actions (Kroeber & Kluckhohn, 1952). In our study, we use countries as cultural units, because they are relatively stable societies, have clear geographical boundaries

and institutionalized rules of what constitutes membership, they generally have a common

law system, political institutions, and a history of collective problem solving (for respective

discussions, see Chen et al., 2009; Peterson et al., 2018; Taras et al., 2016).

National culture affects organizational behavior in several ways (Tsui et al., 2007). A

key way is by providing its members (which constitute the majority of the workforce in a

country) a framework for constituting the self and interpreting reality (including perceptions

and evaluations) and by providing norms regarding communication and (inter)action (Gelfand

et al., 2017; Triandis, 1996). National cultures also affect the shape of organizations and thus

the immediate context in which employees operate (e.g., leadership styles and formal voice

mechanisms; Dickson et al., 2004; Kwon & Farndale, 2020). While we do not explicitly

examine how national culture affects the organizational context in which our study

participants work, we need to consider that the immediate work context is embedded in a

national macro context (Johns, 2006; Peterson & Barreto, 2014). A third way of influence that

is beyond the scope of the current study is that culture moderates the effects of individual

differences and factors of the immediate work context on organizational behavior (Tsui et al.,

2007). We elaborate on this influence in the discussion.

So far, employee silence has been examined in a rather limited scope of countries with

South Asian and Arab countries recently complementing the traditional focus on Confucian

Asian and Western countries (Hawass, 2016; Jain, 2015). Studies comparing employee

silence or voice across countries are almost absent (Morrison, 2014). Examining how national

culture affects employee silence does not only lay a foundation for research on culture and

workplace silence, it also contributes to the ongoing debate on whether national culture has

considerable influence on employee behavior (Chen et al., 2009; Tung & Stahl, 2018).

Indeed, despite ambiguity, a lot of – in part stereotypical – assumptions exist regarding

national differences and their influence on employee behavior, and these assumptions

potentially misguide research and practitioner training and actions (Chen et al., 2009; McCrae

et al., 2013). For silence in particular, prior research – for example, among samples from Japan, Korea, Australia, South Africa, and the USA (Gudykunst et al., 1996; Maree, 2016) – did not support assumptions regarding national differences in the use and valence of silence. To facilitate understanding of how silence manifests itself across nations, we validate an instrument to conduct cross-cultural research and use it to examine differences (or their absence) in silence motives across 33 countries from diverse regions.

> *Research Question 1: Do the scales that assess differentially-motivated silence types demonstrate adequate psychometric properties in each country?*
> *Research Question 2: Are there differences in the prevalence of differentially-motivated silence types across countries?*

Relationships Between Cultural Dimensions and Employee Silence Motives

Attempts to explain culture's effects on silence can be divided into two approaches (Ting-Toomey, 2010). Ethnographic approaches aim at identifying distinctive communication codes of a cultural community that, in turn, reveal this particular community's normative expectations regarding the adequate use of, for example, speech and silence. Examples for ethnographic studies on silence include Covarrubias' (2007) research on generative silence (i.e., silence as a powerful means to achieve productive personal, social, and cultural outcomes) in the communication of Native Americans and Sheriff's (2000) research on customary silence (i.e. a form of silence reflective of cultural censorship and practiced in the absence of explicit coercion or enforcements) surrounding the subject of racism in Brazil. The second approach, called the social scientific approach by Ting-Toomey (2010), draws upon preexisting frameworks of cultural characteristics (e.g., individualism-collectivism) and uses them as independent variables to explain the differences and similarities of communication phenomena across countries. We decided to apply a social scientific approach based on the following arguments (Ting-Toomey, 2010).

First, utilizing conceptual cultural frameworks helps to create an exploratory system for why employees in several cultural communities communicate differently or similarly in

accordance with a consistent, anchoring foundation. Second, drawing upon a cultural

framework provides design parameters regarding to concepts that potentially explain the

phenomenon of interest and thus should be included in studies (and those that might be

omitted). Third, the cultural characteristics included in conceptual cultural frameworks (e.g.,

cultural value dimensions, such as power distance and collectivism) provide starting points

for practitioners and trainers who aim to improve communication in international business.

Fourth, cultural frameworks such as Hofstede's typology (1980) and the GLOBE framework

(House et al., 2004), have been used to examine the relevance of culture for a range of

organizational phenomena. Thus, by drawing on such frameworks, our research is embedded

into the broader field of cross-cultural organizational behavior research.

　　　　Studies that applied the social scientific approach to examine the role of ethnic

cultural factors regarding silence (or voice; e.g., Botero & Van Dyne, 2009; Lam & Xu, 2019;

Rhee et al., 2014) focused on one or two out of potentially manifold characteristics supposed

to differentiate cultures (see Lytle et al., 1995; Taras et al., 2009). Applying a more

comprehensive approach, we drew upon a systematic and widely examined typology of

culture, namely the GLOBE framework (House et al., 2004). This framework provides a

differentiated approach to culture including nine dimensions for societal practices (see Table

1 for an overview), uses more recent data than comparable typologies (e.g., Hofstede, 1980),

and is well validated, as it is widely used in the field of leadership and management (Dorfman

et al., 2014).

　　　　In our study, we focus on three GLOBE dimensions based on theoretical grounds (i.e.,

the nature of the situation in which silence occurs) as well as empirical grounds (i.e., the

number of cases for between-country level analyses is limited to 33 countries; Maas & Hox,

2005). We developed hypotheses that specify that silence is likely to vary as a function of

power distance (because silence means not challenging authorities), assertiveness (because

silence means applying a rather indirect communication style), and in-group collectivism

(because silence means not acting independently but being loyal to group norms). Note that we also explore relationships between silence motives and the other GLOBE-dimensions and discuss findings as additional, exploratory analyses.

How societies deal with hierarchy and power differences: Power distance

Employees who address critical issues, ideas, and concerns are challenging the status quo, and they question the judgement of those who installed the current procedures, rules, and practices (van Dyne et al., 1995). The idea that cultures can be distinguished with regard to whether their members are expected to accept or challenge the current distribution of power is prominent in several cultural frameworks (e.g., Hofstede, 1980; Schwartz, 2006; Smith et al., 2002) and central to the dimension of power distance in the GLOBE typology. Reviews (Daniels & Greguras, 2014; Kathri, 2009) suggested that in high power distance contexts, individuals with a lot of power are perceived as superior and elite, while those with little power accept their places in the hierarchy, defer judgments to their leaders, and are generally loyal and obedient to them (Bochner & Hesketh, 1994; Kirkman et al., 2009). Such loyalty and deference would suggest that members remain silent for prosocial reasons to protect or not embarrass their leaders.

Power distance is also associated with conformity as suggested by results of Brockner and colleagues' (2001) meta-analysis: compared to samples from low power-distance countries (i.e., USA, Germany), samples from high-power distance countries (e.g., China, Mexico) responded more favorably to lower levels of voice opportunities. A tendency to defer to authorities is also visible in the sources of guidance employees tend to rely upon when handling work events. In a 47-nation study, Smith and colleagues (2002) showed that samples from high power distance cultures relied upon vertical sources such as superiors, as well as formal rules and hierarchies, while contributions from lower-level employees were not seen as effective or appreciated. These and similar findings (see Lam & Xu, 2019; Taras et al., 2010) suggest a positive relationship between power distance and acquiescent silence which is

associated with conformity and acceptance of the status quo. As members of high-power distance countries prefer directive leadership (Taras et al., 2010) and accept that the status quo cannot and should not be changed, they are likely to believe that it is more efficient not to rock the boat at all. Engaging in opportunistic silence would thus save them from additional workload and helps to avoid interpersonal conflict (Morrison & Rothman, 2009). Such a detachment-based reasoning is also supported by Merkin et al.'s (2014) meta-analytic finding that power distance is negatively related to propensity to interrupt.

Power is linked to emotional experience, with fear often being experienced by low-power individuals (Mondillion et al., 2005). In line with this reasoning, in Hofstede's (1980) conceptualization of power distance, members of high-power distance cultures are fearful of expressing concerns to more powerful people. However, this emphasis on fear is not evident in the power distance construct and its operationalization as per the GLOBE study (see Hofstede, 2006). Indeed, power may not always be associated with fear. While the abuse of power (e.g., by leaders) certainly induces fear in followers (Beugre, 1998), trust in hierarchy, positions and institutions can be comforting for individuals. Doney and colleagues (1998) proposed that calculative prediction and capability forms of trust would be more prevalent in high power distance cultures. Such forms of trust are based on the ability to predict and calculate the potential costs and rewards of making oneself vulnerable to another, as well as an assessment that the individual or entity that is trusted will meet their obligations and expectations (Doney et al., 1998). Thus, we do not expect a positive relationship with quiescent silence, because employees from high power distance cultures accept the status quo and thus do not fear their superiors (Daniels & Greguras, 2014). Indeed, neither Rhee and colleagues (2014) nor Lam and Xu (2019) found substantial relationships between power distance and fear-based silence using individual-level data. In sum, we expect:

Hypothesis 1: Power distance is positively related to (a) acquiescent, (b) prosocial, and (c) opportunistic silence.

Whether societies deal with issues in a confrontational vs. harmonious style: Assertiveness

Whether members of a culture express or withhold their views could also be affected by the culturally-endorsed communication style (Merkin et al., 2014). Hall (1976) suggested that countries differ in their preference for direct (i.e., open and confrontational, which he labelled "low-context") or indirect (i.e., more harmonious and considerate) communication styles (which he labelled "high-context"). Several researchers (e.g., Brett, 2007; Ting-Toomey et al., 2001; Ward et al., 2016) drew upon this idea and showed that members of high context cultures prefer indirect (i.e., more harmonious) communication styles, are more likely to avoid conflict, and use more nonconfrontational strategies in conflict resolution and negotiation. The idea of direct vs. indirect communication style is part of GLOBE's assertiveness dimension (see Table 1).

Elaborating on the relationship between assertiveness and voice, Kwon and Farndale (2020) suggest that in high assertiveness cultures, norms may signal that assertive behavior is appropriate, useful to achieve instrumental aims and, thus, more important than concerns about harming relationships. This assumption suggests a negative relationship between assertiveness and prosocial silence and a lower tendency of members from assertive cultures to be afraid of negative consequences that might follow from speaking up (i.e., quiescent silence). Further, as assertiveness has been associated with internal locus of control (see den Hartog, 2004), members of assertive cultures should tend to believe that speaking up will make a difference and thus acquiescent silence should be low. Prospects seem different for opportunistic silence. Assertive cultures value competitiveness and assign status based on achievement. As a consequence, assertiveness is consistent with a tendency toward opportunism (den Hartog, 2004; Doney et al., 1998) which, in turn, makes it more likely that members of assertive cultures withhold their views to gain a personal advantage than members of less assertive cultures.

Assertiveness has "rarely been studied as a dimension of culture in its own right" (den

Hartog, 2004, p. 396), but research on Hofstede's (1980) dimension masculinity vs. femininity provides indirect support for our reasoning. Indeed, the GLOBE dimension assertiveness has been derived from Hofstede's masculinity dimension which denotes the degree to which a society values competition, achievement, heroism, and assertiveness rather than cooperativeness, modesty, and caring for the weak. In support of our reasoning regarding negative relationships between assertiveness and silence, masculinity was negatively related to indirectness, conflict avoidance, and conformity, and positively related to confrontation in meta-analyses (Merkin et al., 2014; Taras et al., 2010). Doney and colleagues (1998) provide indirect support for the proposed positive relationship between assertiveness and opportunistic silence. Reviewing research from diverse disciplines, these authors conclude that calculative processes are more expected and thus tolerated in assertive/ masculine societies, whereas honoring moral obligations is more valued in rather harmonious societies. In sum, we expect:

> *Hypothesis 2: Assertiveness is negatively related to quiescent (H2a), acquiescent (H2b), and prosocial silence (H2c), and positively related to opportunistic silence (H2d).*

How societies perceive the relationship between individual and group: In-group collectivism

Whether members of a society challenge the status quo by expressing their views, and whether they expose themselves as individuals, should be influenced by the way they perceive themselves and their position in relation to their social environment. Several cultural frameworks suggest that cultures differ regarding to the extent to which they socialize their members into striving for independent/individual and/or interdependent/collective identities – with widespread effects on their members' cognition, emotion, motivation, and behavior (e.g., Hofstede, 1980; Markus & Kitayama, 1991; Minkov et al., 2017; Schwartz, 2006; Triandis, 2000). In the GLOBE framework, collectivism is addressed by two dimensions (see Table 1). In our study, we draw upon in-group collectivism as this dimension is rooted in the extensive literature on societal collectivism (Hofstede, 1980; Triandis, 1996), has been used to represent collectivism in cross-validation studies (Vignoles et al., 2006), and has been conceptually

related to silence and (negatively to) voice in the past (Kwon & Farndale, 2020).

Collectivistic societies draw upon group norms, perceived duties, and obligations, and members of collective cultures ground their self-esteem, at least in part, in their ability to adjust and restrain the self. One consequence of being socialized in collectivistic societies is a tendency to communicate in a way that protects others and maintains harmonious relationships – a pattern which has been associated with the concept of face (Merkin, 2018; Triandis, 1996). In face cultures individuals derive their self-worth primarily extrinsically by fulfilling social role obligations, including that, besides preserving their own face, they also know of the importance of face for the self-worth of others (e.g., Leung & Cohen, 2011; Oetzel & Ting-Toomey, 2003). Expressing diverging viewpoints or questioning a supervisor's or colleague's viewpoint, risks discrediting one's own and the other person's face, causing embarrassment and feelings of shame in actor, target, and observers which, in turn, disrupt interaction and collaboration. Members of face cultures and collectivists in general try to avoid such disruption and know that others are interested in preserving each other's face in social interactions as well. Consequently, employees from collectivistic cultures should be more likely to withhold their views to protect others and social harmony. They should also expect others to protect them, but at the same time, to be interested in maintaining harmony and declining challenges to the status quo. This reasoning links collectivism to prosocial and acquiescent silence. Collectivists should further have a lower tendency to engage in selfish behavior to achieve a personal advantage which is the case in opportunistic silence. We do not, in contrast, expect relationships with quiescent silence. Collectivists should not fear their group members, because they know that group members do not discredit other group members and protect each other's face. This is particularly the case for higher-status members, such as managers, as these have a particular obligation to protect the collective.

While research on specific relationships between collectivism and silence motives is scarce, a large body of research supports the more general assumption that members from

collectivistic cultures are socialized into accepting group norms even if their ideas and opinions diverge from the ideas and concerns shared by their group. Meta-analyses (e.g., Bond & Smith, 1996; Merkin et al., 2014; Taras et al., 2010) showed that conformity is more prevalent in collectivistic cultures while individualism, in turn, is positively related to openness in communication, propensity to interrupt, and confrontation, and negatively related to passive reactions to injustice, conflict avoidance, indirectness, and face-saving concerns. The only study that examined specific relationships of collectivism with silence – at the individual level – supported our assumption regarding the relationship between collectivism and acquiescent silence and the zero-relationship between collectivism and silence that is based on fear (Rhee et al., 2014). Notably, contrary to our reasoning, Rhee and colleagues also did not find support for the expected relationship between collectivism and prosocial silence. We expect:

> *Hypothesis 3: In-group collectivism is positively related to acquiescent (H3a) and*
> *prosocial silence (H3b) and negatively related to opportunistic silence (H3c).*

Additional dimensions included in the GLOBE framework

The GLOBE framework includes further cultural dimensions (see Table 1). While there is no strong theoretical rationale and consistent prior research to propose hypotheses regarding their relationship with silence motives, we explored how these additional dimensions relate to the four employee silence motives. Our aim was to identify patterns of relationships that have been neglected so far but may inspire future theorizing and research.

> *Research question 3: How are the GLOBE cultural dimensions uncertainty avoidance,*
> *performance orientation, future orientation, gender egalitarianism, human*
> *orientation, and institutional collectivism related to employee silence motives?*

Method

Samples and Data Preparation

The Cross-Cultural Silence Project is an international collaboration of scholars from social and organizational psychology as well as management science. Data collection was

centrally organized by the first author but carried out by each of the co-authors in their respective country. Table 2 show the samples' characteristics, and more detailed description of data collection strategies within the participating countries is presented in the Online Appendix. Thirty-five samples were collected from 33 countries. Canada and Switzerland are represented by two samples due to the two main language groups in these countries (i.e., English/French and German/French, respectively). The overall sample comprised 8,222 employees. Sample sizes in each country ranged from 145 to 463 with a median of 225 participants. To avoid biases caused by organizational membership or profession, we aimed to recruit heterogeneous employee samples. This aim was accomplished in that all of the samples comprised participants from diverse age groups, many different professions and industries, and with varying degrees of work experience. Note that we excluded all participants that were self-employed, because we were interested in silence as it appears within organizations (Morrison & Milliken, 2000).

Measures

Contributors translated all scales using the standard procedure of translation-back-translation, and resolving inconsistencies through discussion (Brislin, 1970). The translated items of the employee silence scales are presented in the Appendix (Table S-1).

Employee silence was measured with the employee silence scale developed by Knoll and van Dick (2013). Participants first read a short paragraph outlining the situations we were interested in (i.e., they thought that colleagues or supervisors acted in a wrong, inefficient, immoral, or otherwise problematic way) and then asked them whether they spoke up to someone who could change the situation or tended to remain silent. We then asked them to rate their underlying motives for remaining silent. The item stem ("I remained silent at work…") was presented, followed by three randomly ordered items for each of the *four silence types,* namely *acquiescent, quiescent, prosocial, and opportunistic silence* (see Table S-1 for the complete list). The silence type items were answered using a frequency scale with

the following seven response categories: 1 (never), 2 (very rarely), 3 (rarely), 4 (from time to time), 5 (occasionally), 6 (frequently), and 7 (very frequently).

Culture. The GLOBE project provides country-level societal practices and societal values scores (https://globeproject.com). We used societal practices scores, because societal cultural practices (as a culture 'is') mirror individuals' reality of 'how things are' in a society and how a societal culture is practiced in everyday life (Frese, 2015; Urbach et al., 2020). This is why practices are more likely to drive behavior than societal values (i.e., how a society's culture 'should be'). In the Online Appendix (Tables OS-5 and OS-6a-d), we provide additional analyses linking the employee silence motives to additional cultural typologies. Data for the respective indicators were taken from the following sources: Schwartz (2008) for Schwartz' culture value orientations (https://geerthofstede.com/)for the Hofstede (1980) dimensions, and Minkov and colleagues (2017) for the revised individualism-collectivism dimension. To show relationships of silence motives with cultural tightness, we used data from Gelfand and colleagues (2011) and Uz (2015).

Analytical Procedure

Overall, we conducted four main analyses to address our research questions and hypotheses and tested them using the statistical software R (Version 4.0.3; R Development Core Team, 2020). First, to establish a proper measurement model of our measure (i.e., the four types of employee silence scale; Knoll & van Dick, 2013), we conducted confirmatory factor analyses (CFA; Brown, 2015) using the R package *lavaan* (Version 0.6-7; Rosseel, 2012), and applied the alignment method by Asparouhov and Muthén (2014) using M*plus* (Version 8.4; L. K. Muthén & Muthén, 2017), as we will describe in detail below.

Second, against the background of the hypothesized measurement model that fitted the entire sample well, we used multi-group CFA (MG-CFA) to assess measurement invariance (MI) across all samples (Davidov et al., 2018; Vandenberg & Lance, 2000). We employed a stepwise procedure and tested whether imposing additional constraints significantly

deteriorated model fit by each time comparing the more constrained model with the preceding

model using a χ^2 difference test (Stoel et al., 2006). Because the χ^2 test statistic is sensitive to

sample size and minor model misspecifications (Bentler & Bonett, 1980; Bollen, 1989), we

additionally evaluated change in model fit in light of alternative fit indices as recommended

by Kim and colleagues (2017). In particular, we applied the cut-offs for the assessment of

metric invariance and scalar invariance as recommended by Rutkowski and Svetina (2014)

when testing for MI in multiple groups.

To allow for a meaningful comparison of the latent factor means across groups, scalar

invariance is generally desired (e.g., Brown, 2015; Davidov et al., 2018; Vandenberg &

Lance, 2000). However, "strict forms of MI, such as scalar invariance, which imposes

identical factor loadings and indicator intercepts across the groups to be compared, often do

not hold" (Davidov et al., 2018, p. 632). Muthén and Asparouhov (2018; see also Marsh et al.,

2018) concluded that "traditional multiple-group CFA makes it very difficult to properly

identify the sources of non-invariance due to too many necessary model modifications" (p.

642) and proposed the alignment method which has successfully been used to analyze MI in

cross-cultural research (Asparouhov & Muthén, 2014; Cieciuch et al., 2018). This alignment

method can be used to estimate group-specific factor means and variances without requiring

exact measurement invariance, and provides a detailed account of parameter invariance for

every model parameter in every group (Asparouhov & Muthén, 2014).

Finally, we tested hypotheses on the relationships of cultural syndromes with the four

silence motives with multilevel modelling (MLM; Hox et al., 2018) in M*plus* (Verison 8.4;

Muthén & Muthén, 2017). Specifically, we first calculated the unconditional *ICC*(1) and the

unconditional *ICC*(2) for the four silence motives to inquire whether variance in the four

silence motives was attributable to the sample using the R package *multilevel* (Version 2.6;

Bliese, 2016). If between-group variance with regard to the four silence motives was

statistically significant, we investigated the hypotheses with regard to the GLOBE framework

(House et al., 2004). In addition, we also calculated the conditional $ICC(1)$ – that is, the $ICC(1)$ for a respective silence motive controlling for age, gender, and managerial position – for each silence motive using the R package *performance* (Version 0.7.0; Lüdecke et al., 2021). The small sample size at the country-level (i.e., cultural dimension scores from the GLOBE were available for 21 out of the 35 samples; House et al., 2004) limited statistical power to identify meaningful effects in our analyses (e.g., Hox et al., 2018; Maas & Hox, 2005; Scherbaum & Pesner, 2019). We therefore decided to generally include only one level-2-predictor at a time and included only the three dimensions for which we developed hypotheses in a combined model.

Results

As adequacy of measures is a central precondition for conducting cross-cultural research, we first report the psychometric properties of an instrument assessing employee silence motives across 33 countries. We then examine similarities and differences in silence motives across country samples and cultural clusters. To provide insights into the role of culture as an explanation for international differences in silence, we report results regarding the hypothesized relationships between silence motives and the GLOBE dimensions. Please note that our data and analysis scripts are available online (https://osf.io/8g9fe/) along with an extended online appendix (include reference to JOB link here).

Psychometric Properties of the Employee Silence Scales

Table 3 presents the descriptive statistics and internal consistencies of the silence scales. To choose the proper estimator for our substantive latent analyses (i.e., CFA, MG-CFA), we initially checked for systematic missing data and whether the data were normally distributed: First, a multiple logistic regression revealed that missing data with regard to silence was not predicted by a participant's demographics (i.e., gender, age, and tenure; $p > .05$ for all). Second, a Henze-Zirkler test (Henze & Zirkler, 1990; Korkmaz et al., 2014) of the assumption of multivariate normality suggested that this assumption did not hold ($HZ = $

35.09, $p < .001$). Consequently, we employed the robust maximum likelihood estimation to

ultimately obtain parameter estimates based on all the available information in the data and

robust to non-normally distributed variables (Enders, 2010; Kline, 2016).

To examine the factor structure of the four types of employee silence scale (Knoll &

van Dick, 2013), we performed CFAs in the full sample. First, we compared several

measurement models, specifically a four-factor solution in which we specified the four silence

types to be orthogonal to each other (Model 1), a single-factor solution, with all items from

the four subscales loading on one factor (Model 2), a four-factor solution with a second-order

factor (Model 3), and a four-factor solution with correlated factors (Model 4). As can be seen

in Table 4, the four-factor solution with correlated factors fitted the data best, $\chi^2(48) =$

1,255.35, $p < .001$, CFI = .96, TLI = .95, RMSEA = .07 [CI 90%: .07 - .07, $p < .01$], SRMR =

.05. In addition, it fit the data significantly better than the second-order solution, $\Delta\chi^2(2) =$

12.71, $p < .01$, ΔAIC = 14.18[1]. We then performed CFAs on this best fitting model to

examine whether measurement invariance (MI) held across all 35 samples, and whether the

same factor structure held in all samples (i.e., *equal form* or *configural invariance*; see

Brown, 2015; Vandenberg & Lance, 2000) and found it to be the case (see Table 5).

Next, we constrained the loadings to be equal across samples (i.e., *equal factor*

loadings or *metric invariance*), which resulted in a slight decrease in fit but an acceptable

solution nonetheless. Specifically, comparing this more constrained model of MI with the

former one, we accepted it in light of the cut-offs of ΔCFI $\leq .02$ and ΔRMSEA $\leq .03$ as

recommended by Rutkowski and Svetina (2014), $\Delta\chi^2(272) = 549.83$, $p < .001$, ΔCFI $= < .01$,

ΔRMSEA $= < .01$. Finally, we additionally constrained the item intercepts across samples

(i.e., *equal intercepts* or *scalar invariance*), which resulted in a substantially worse fit of this

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[1]We also tested whether the fit of the four-correlated factors in each sample (Table OS-2). In general, the four-correlated factors fit the respective sample data well, but yielded suboptimal fit indices for Colombia, Pakistan, and Togo. Thus, we tested the competing measurement models as outlined above again in the full sample, this time excluding Colombia, Pakistan, and Togo – the results and conclusions regarding the choice of the four-correlated factors as the best fitting measurement model remained the same.

MI model with respect to the data. In particular, and against the recommended cut-offs for this stage (i.e., ΔCFI $\leq$ .01 and ΔRMSEA $\leq$ .015), scalar invariance cannot be assumed, $\Delta\chi^2(272) = 1{,}646.64$, $p < .001$, ΔCFI$< .03$, ΔRMSEA $< .02$ (see Table 5). This finding is rather common for studies investigating MI, particularly in a cross-cultural setting (e.g., Cieciuch et al., 2018; Davidov et al., 2018; Marsh et al., 2018). Accordingly, we used the alignment method (Asparouhov & Muthén, 2014) to estimate group-specific factor means and variances without requiring exact MI, and to provide a detailed account of parameter invariance for every model parameter in each group. Against the basis of the configural model, the alignment method identified only a few sources of measurement noninvariance for the measurement loadings and the intercepts of the indicators (for details on noninvariant loadings or intercepts across samples, see Table OS-3 in the Online Appendix).

With respect to internal consistency of the subscales, Table 3 shows that the four types of employee silence displayed good omega scores (McNeish, 2018; Raykov & Marcoulides, 2019) across essentially all of the samples. Opportunistic silence showed somewhat lower omega scores and, in some samples, narrowly missed the often-applied criterion for acceptable omega scores for three item-measures (i.e., around .70). In sum, results indicate that Research Question 1 can be answered with "yes", because the instrument for assessing four types of employee silence shows adequate internal consistency and a fairly invariant factor structure across cultures.

A sufficient degree of homogeneity within countries provides further evidence for the validity of country culture measures (Fischer & Schwartz, 2011). Statistical evidence for within-sample homogeneity is provided by $ICC(1)$ and $ICC(2)$ scores, both unconditional and conditional, that indicate a considerable amount of variance explained by sample origin (see Table 6). Given that "ICC(1)'s in the 5-20% range indicate fairly powerful effects of the overall organization or society" (Hanges & Dickson, 2004, p.147; see also Bliese, 2000), in our study, the amount of shared variance explained by country membership justifies treating

sample origin as a meaningful level of analysis. The fact that there is still a considerable amount of variance unexplained is not surprising, as nationality is a rather distal context (Hackman, 2003) and more proximal factors, such as organizational culture and individual differences, are also important (Tung & Stahl, 2018). We elaborate on this issue in the discussion.

Employee Silence Motives across Countries and Cultural Clusters

Another aim of our study and subject of Research Question 2 was to explore whether employees from different countries vary in their motives to withhold their views at work. Table 3, which shows mean scores and standard deviations, suggests that the four employee silence motives varied considerably between countries. Results also indicate differences in the magnitude of the four silence motives for each country. We used the alignment method (Asparouhov & Muthén, 2014) to compare the latent means of the four silence types directly across our samples. Table OS-4 in the Online Appendix shows in detail where each sample ranked on each of the four silence types.

These results – along with the ICC scores presented above – suggest that Research Question 2 can also be answered with "yes". However, the distribution of silence motives scores across countries did not resemble established cultural clusters as defined, for example, by the GLOBE program (see also Figure OS-1 in the Online Appendix, which uses violin plots to illustrate the distribution of silence motives scores across cultural clusters).

Relationships between Cultural Dimensions and Employee Silence Motives

Dimensions that are proposed to characterize cultures are a way to explain similarities and differences across countries (Ting-Toomey, 2010). Tables 7a and 7b provide results from MLM analyses that were used to examine relationships between employee silence motives and the three focal cultural dimensions (i.e., power distance, assertiveness, in-group collectivism). As can be seen in Table 7b, these cultural dimensions explained a considerable amount of variance in the four silence motives whereby $R^2_{Between}$ was highest for acquiescent

and prosocial silence and lower for quiescent and opportunistic silence. We further explored

relationships between silence motives and the other cultural dimensions included in the

GLOBE framework. We could not test a complete model including all cultural dimensions,

because statistical power to identify meaningful effects was limited by the sample size at

country-level (see methods section; Scherbaum & Pesner, 2019). Thus, for each hypothesis,

we report results for one separate model including one level-2-predictor at a time, and one

combined model which included the three dimensions for which we developed hypotheses

(see Table 7b).

   Relationships with selected dimensions from the GLOBE typology. Hypothesis 1

proposed that the cultural dimension power distance is positively related to acquiescent,

prosocial, and opportunistic silence. As can be seen in Table 7a, in line with Hypothesis 1a

and 1b, power distance was positively related to acquiescent and prosocial silence. Hypothesis

1c, in contrast, had to be rejected, because power distance was not significantly related to

opportunistic silence. When included in a combined MLM with cultural dimensions in-group

collectivism and assertiveness (see Table 7b), power distance was positively related to

acquiescent, but not significantly related to prosocial and opportunistic silence at $p < .05$

level.

   Hypothesis 2 had to be rejected as assertiveness was not significantly related to any of

the four silence motives. Hypothesis 3 proposed positive relationships between in-group

collectivism and acquiescent (H3a) and prosocial silence motives (H3b), and a negative

relationship with opportunistic silence (H3c). As the relationships with acquiescent, prosocial

silence, and opportunistic silence were not significant at $p < .05$ level, Hypotheses 3a-c had to

be rejected.

   Additional analyses regarding further cultural dimensions from the GLOBE study.

To answer Research Question 3, we explored whether any of the other six culture dimensions

that are part of the GLOBE typology (see Table 1) are related to any of the silence motives

using MLM with each cultural dimension separately. As can be seen in Table 7a, results revealed statistically significant negative relationships between institutional collectivism and acquiescent silence, and between uncertainty avoidance and opportunistic silence. No statistically significant relationships were found between future orientation, performance orientation, gender egalitarianism, and humane orientation and any of the silence motives.

Discussion

Although the wide-ranging detrimental effects of employee silence are apparent and have been documented in many regions across the globe, little systematic knowledge is available on international similarities and differences as well as cultural specifics that may affect employees' motives for withholding their views. We advanced international research on employee silence by introducing a reliable measure to assess four types of silence (i.e., acquiescent, quiescent, prosocial, and opportunistic silence) in 21 languages and demonstrating its psychometric qualities. We further add to this aim by providing scores of differentially-motivated silence for 33 countries and revealing relationships of cultural dimensions from the GLOBE framework with the four silence motives. In the following, we discuss why our results regarding the hypothesized and exploratory links between cultural dimensions and silence motives specify and, in part, challenge traditional assumptions of the culture and organizational behavior literature on silence.

Essential to the power distance dimension is that people in high power distance societies do not challenge hierarchies by expressing their concerns to more powerful people. One potential explanation underlying this reasoning is that this may be due to fear as evident from the conceptualization of this dimension in the Hofstede (but not the GLOBE) study. Based on our nuanced approach to examining motives for silence, the relationships between power distance and *acquiescent* and *prosocial silence* show that high power distance facilitates conformity, passive acceptance, and a tendency to avoid causing conflicts. Further, our findings suggest that power distance is not associated with remaining silent due to fear of

saying something that could offend powerful people (i.e., *quiescent silence*). As such, a

contribution of our study is that it demonstrates differences between the power distance

dimensions as conceptualized by Hofstede and GLOBE (see also Hofstede, 2006). The fear of

raising issues with powerful people as a lone individual is central to Hofstede's power

distance measure; in contrast, the GLOBE power distance measure does not directly ask about

fear. The GLOBE measure thus reflects that the abuse of power (e.g., by leaders) may induce

fear in followers; at the same time, trust in hierarchy, positions, and institutions can be

comforting for individuals. The finding that none of the cultural dimensions from the GLOBE

typology explained considerable variance in *quiescent silence* could also indicate that

proximal factors such as leadership and team psychological safety (Edmondson, 2018) have a

stronger influence on employees' fears than more distal factors such as societal culture.

Distinct relationships of silence with in-group and institutional collectivism support

claims that collectivism is multidimensional (Vignoles et al., 2016), and indicate that wide-

spread assumptions regarding collectivism and silence might need to be reconsidered. In-

group collectivism which traditionally has been associated with conformity and thus a

reluctance to express diverging viewpoints, was not related to any of the silence motives in

our study. Instead, institutional collectivism – the second collectivism dimension that was

introduced by the GLOBE study (Gelfand et al., 2004) – explained considerable variance in

acquiescent silence. Moreover, while a positive association was expected between in-group

collectivism and silence, institutional collectivism was negatively related to silence. In the

GLOBE program's validation studies, institutional collectivism was linked to involvement,

team-oriented leadership, and teamwork prompting Gelfand and colleagues (2004, p. 472) to

suggest that societies that are characterized by institutional collectivism seek to accomplish

their aims "through collective efforts, through practices which are concerned with others, and

through practices which are not being assertive or power dominating". Our findings support

this reasoning. In cultures characterized by high institutional collectivism, expressing one's

views might not be perceived as dissent, but as a means to help the team develop and learn.

Promoting assertiveness, in contrast, seems not to be a way to overcome silence at work. We expected a negative relationship between assertiveness and silence based on the assumption that members of high assertiveness cultures are willing to engage in conflict, speak up, defend, and act in their own interest (Ames & Flynn, 2007; Kwon & Farndale, 2020). These features are proposed to facilitate voice at the individual level, but in cultures that value assertiveness, not only are individuals more assertive, they also have to work among assertive peers who may create a threatening context (Schneider, 1987). Given that a safe context is a precondition for employee voice (Chamberlin et al., 2019; Edmondson & Lei, 2015), employees in high assertiveness cultures may think twice whether challenging the status quo is worth the hassle. This hesitation might be reinforced by the opportunism that is associated with assertiveness as a cultural dimension (den Hartog, 2004; Doney et al., 1998). Taras and colleagues' (2010) meta-analysis provided some support for this reasoning: Masculinity, a culture dimension from the Hofstede (1980) framework that is associated with assertiveness, was negatively related to conflict avoidance, but it was also positively related to accommodating and compromising conflict management styles. Thus, our reasoning regarding a negative association between assertiveness and silence might have been misguided by an atomistic fallacy (Brewer & Venaik, 2014; Diez-Roux, 1998): cultural characteristics such as assertiveness might yield differing or even contradicting effects at the individual and collective level.

Opportunistic silence was also not significantly related to the three cultural dimensions for which existing theory and evidence recommended the development of specific hypotheses. Instead, opportunistic silence was negatively related to uncertainty avoidance, a cultural dimension that we included to explore potential relationships. This is an interesting finding given that voice is often associated with uncertain outcomes for the individual who speaks up, and challenging the status quo is supposed to induce uncertainty in systems.

However, at the cultural level, change is essential for survival and should not be oppressed by fear of uncertainty (Schein, 2017). To secure development, cultures that view uncertainty as a problem that should be avoided, might provide employees with opportunities to overcome uncertainty (Kwon & Farndale, 2020). This could include procedures that guide change-oriented behaviors such as formal voice channels which, in turn, should reduce silence in such countries.

Theoretical and Practical Implications

Scale application and scale validity. We found evidence (i.e., internal reliabilities, factor structure, sufficient degree of homogeneity within countries, measurement invariance) that the Knoll and van Dick (2013) scale is a reliable and valid measure that can be used for international research projects and surveys that are concerned with employee participation, organizational learning, safety issues, or preventing wrongdoings. Having such measures is a precondition for identifying links between specific types of silence and specific country characteristics that eventually might help to disentangle the relations between country culture and silence.

Relationships between culture (dimensions) and silence might be more complex than previously assumed. Cultural dimensions have been suggested as a starting point for examining the relationship between culture and employee silence. Studies suggesting that dimensions such as power distance and collectivism are responsible for differences in silence (e.g., Botero & van Dyne, 2009; Rhee et al., 2014), however, drew upon a limited number of (mostly prototypical) countries and used individual-level scores to represent culture characteristics. Results of our study challenge and specify established views of the potential of individual cultural dimensions as predictors of silence.

Results showed that only three out of the nine cultural dimensions included in the study significantly explained variance in employee silence. The pattern that they showed indicates that silence is more likely to occur in cultures which accept status differences and

rely on established structures, and less likely in cultures in which collective efforts are

ingrained in their societal practices. Strong in-group bonds did not make silence more likely

to occur nor did societal practices characterized by assertiveness make silence less likely.

Moreover, our study specifies the motives that are responsible for the reluctance to challenge

authorities in high power distance cultures. The distinct relationships that we found between

silence and in-group and institutional collectivism point at the necessity to overcome

traditionally unidimensional views of collectivism and paves the way for more differentiated

views as developed by Vignoles and colleagues (2016) and combinations with other

dimensions as proposed in the concepts of horizontal and vertical collectivism (Singelis et al.,

1995).

Associations of silence with specific countries need to be reconsidered. Our results

show that various countries ranked high (e.g., Croatia, Slovenia, Canada, and Iran) as well as

low (Denmark, China, and Chile) on silence motives, and some countries ranked rather

differently across the four silence types (e.g., Greece, Togo). Furthermore, the country

clusters suggested by the GLOBE study showed no consistent pattern regarding the countries'

silence scores (see Table 2 and Figures OS-1 and OS-2). These findings support prior

research (e.g., Hasegawa & Gudykunst, 1998; Gudykunst et al., 1996) in challenging the

validity of widespread assumptions regarding the use and value of silence in different

cultures. They indicate that there are no typical countries in which silence is high or low, and

silence motives are not necessarily all high or all low in any given country.

The amount of variance that cultural dimensions could explain in our study

recommends caution when using cultural dimensions to predict silence and assign countries as

high- or low silence countries – at least for two reasons. First, different culture characteristics

might be responsible for the same silence scores. While for some countries in our study

silence might be driven by low institutional collectivism, the driver for others might be high

power distance. Expecting a silent workforce due to their score on one particular cultural

dimension would thus be misleading. Second, the effect of cultural dimensions could be substituted or neutralized by the work context and/or by country-specific features that are not necessarily represented in a cultural dimension. These features may result, for example, from specific traditions of providing participatory rights (see Szabo et al., 2002) and collective experiences relevant for silence (so-called "remote historic drivers"; Beugelsdijk & Welzel, 2018). The latter may include a socialization in authoritarian cultures (as it is the case in former Communist countries in Eastern Europe or countries with a history in colonization; den Hartog & Dickson, 2012) and growing up or living in difficult socio-economic conditions (Ehrenreich, 2001; Leana et.al., 2012).

Limitations and Directions for Future Research

Cross-cultural research is challenging and, while results in terms of psychometric qualities justified scale adaptation, our study does not meet all the criteria emphasized for comparing results across cultures (Spector et al., 2015; Tsui et al., 2007). We address some of these limitations and suggest how overcoming them provides opportunities to further improve international research on employee silence.

Sample characteristics and geographical coverage. Due to limited resources, we were not able to obtain samples that are representative of their respective countries and are completely similar in features that might influence silence tendencies (e.g., gender, occupational sector, and managerial status). Besides collecting representative samples with respect to demographics or regions, representativeness could also be justified by measuring cultural variables (e.g., individualism) and showing that the scores of the sample match the scores as achieved in large cultural studies. Data collection procedures also differed by country (see Table OS-1). However, using superficially equivalent data collection procedures such as online surveys in each country might not solve this problem as data collection procedures can have different implications across countries (see Spector et al., 2015).

Furthermore, while all of the GLOBE cultural clusters are represented in our samples

with at least two countries, European samples dominate. One of the purposes of conducting

this research was to make scales available in many languages, which eventually allows for

extending silence research geographically. This is necessary as very few studies have been

conducted in Arab countries, Latin America, and Africa leaving the diverse models of

selfhood and silence that prevail in these regions marginalized (see Vignoles et al., 2016).

Country as a unit of analysis for examining cultural influences. While statistical

measures (i.e., ICC) justified treating country as a unit of analysis in our study, the amount of

explained variance by country was not large. As this is rather common in cross-cultural

research (Tsui et al., 2007), some researchers challenge viewing countries as shared meaning

systems (see Schwartz, 2014; Tung & Stahl, 2018). Indeed, individuals are subject to several

influences within their country of origin and countries themselves are not homogeneous

societies (Chao & Moon, 2005; Peterson et al., 2018). They can comprise subcultures and

regions with distinct learning histories due to specific historical developments or geographical

specifics. Further, differences in socioeconomic development can be a source of cultural

variation within countries (Justin et al., 2019). Future research could identify whether sources

of within-country-variation might also explain variance in silence.

Complementing social scientific with ethnographic approaches. When discussing

approaches to cross-cultural studies, we introduced the distinction between social scientific

and ethnographic approaches (Ting-Toomey, 2010). While the social scientific approach that

we drew upon is useful for the purposes of this study (which was comparison of silence

tendencies across countries and cultural dimensions), conducting ethnographic studies could

advance research on culture and silence and provide insights into some of our more

ambiguous findings. For example, the low silence scores in China and the high silence scores

in the Anglo cluster might be based on the fact that members of different cultures do not just

behave differently in a particular situation, but define the situation itself differently (Leung &

Cohen, 2011; Mendoza-Denton & Mischel, 2007). Situations related to silence and voice

might be of high or low relevance for members of a culture and thus remaining silent becomes more salient and more likely to be remembered. Besides, ethnographic studies could reveal culture-specific motives for silence that we did not examine in our study (see Fontes', 2007, ethnographic study on shame as an important motive for silence in Latino cultures).

Going beyond GLOBE and cultural dimensions. The current study investigated silence motives in relation to the cultural framework of the GLOBE study (House et al., 2004). Starting with this established typology had the advantage that a relatively broad range of cultural characteristics could be related to silence, and scores for these characteristics were available for a large number of countries. However, the cross-cultural research literature is complex and offers various approaches to characterize and contrast cultures including high-/low-context cultures (Hall, 1976) and the World Values Survey (Inglehart, 2018; for more exhaustive lists, see Lytle et al., 1995; Taras et al., 2009). For some of these approaches – Schwartz' (2006) cultural value orientations, Hofstede's (1980) typology of cultural dimensions, Minkov and colleagues' (2017) revision of Hofstede's individualism-collectivism dimension, and the concept of cultural tightness (see Gelfand et al., 2006) – we provide brief descriptions and analyses in the Online Appendix.

Culture as a moderator. Our study focused on the direct effects that culture characteristics might have on employee silence. However, culture may also have a moderating effect on the relationships between more proximal antecedents and silence, and cultural dimensions might interact in a similar way as individual traits do (Judge & Long, 2012; Spector et al., 2015; Tsui et al., 2007). For example, as cultural differences exist regarding the role of seniority and gender in societies, in societies in which older and male employees have a higher status, the barrier to overcome silence is higher for younger and female employees. Older and male employees, in turn, may experience greater responsibility to speak up. Kwon and Farndale (2020) suggested that cultural tightness (i.e., the extent to which cultures are characterized by strong norms and low tolerance of deviance; Gelfand et al., 2006, Triandis,

1996) could function as moderator between other cultural dimensions and silence. For example, the relationships between silence and power distance and institutional collectivism might be stronger if examined in tight cultures, because cultural tightness restricts the range of permissible behavior.

Conclusion

Securing effective communication and dealing with challenges to the status quo are central issues for the sustainable development of societal and organizational cultures. Despite frequent reports of detrimental silence in organizational practice across the globe, there is little common ground, empirically or from a measurement standpoint, on which to build a coherent body of knowledge on employee silence in different cultures. In the first large-scale study examining differentially-motivated employee silence, we validated scales in 21 languages that can facilitate international silence research. We further provided scores for 33 countries that can function as a benchmark for future research in these countries as well as orientation for practitioners doing business in increasingly diverse economic settings. Making a first step toward explaining international differences and similarities in silence motives, we linked culture dimensions from the GLOBE framework to silence. Results suggest that silence motives (with the exception of quiescent silence) are related to power distance, institutional collectivism, and uncertainty avoidance. Results also suggest that relationships between cultural dimensions and silence are more complex than previously believed, and that stereotypical assumptions regarding cultural dimensions and the use of silence in specific countries need to be reconsidered. We recommend that – besides replicating our findings with stratified random samples – future research could benefit from complementing social scientific with ethnographic approaches, extending silence research geographically and conceptually, considering units of culture other than nations and cultural frameworks beyond GLOBE, and examining culture not just as an antecedent but as moderator between more proximal antecedents and silence.

References

Allard-Poesi, F., & Hollet-Haudebert, S. (2017). The sound of silence: Measuring suffering at work. *Human Relations*, *70*, 1442–1463.

Ames, D. R., & Flynn, F. J. (2007). What breaks a leader: The curvilinear relation between assertiveness and leadership. *Journal of Personality and Social Psychology, 92*, 307-324.

Aslani, S., Ramirez-Marin, J., Brett, J., Yao, J., Semnani-Azad, Z., Zhang, Z., … & Adair, W. (2016). Dignity, face, and honor cultures: A study of negotiation strategy and outcomes in three cultures. *Journal of Organizational Behavior, 37*, 1178-1201.

Asparouhov, T., & Muthén, B. O. (2014). Multiple-group factor analysis alignment. *Structural Equation Modeling: A Multidisciplinary Journal*, *21*, 495–508.

Barry, B. (2007). *Speechless: The erosion of free expression in the American workplace*. San Francisco, CA: Berrett-Koehler.

Bentler, P. M., & Bonett, D. G. (1980). Significance tests and goodness of fit in the analysis of covariance structures. *Psychological Bulletin*, *88*, 588–606.

Beugelsdijk, S., & Welzel, C. (2018). Dimensions and dynamics of national culture: Synthesizing Hofstede with Inglehart. *Journal of Cross-Cultural Psychology*, *49*, 1469-1505.

Beugre, C. D. (1998). Understanding organizational insider-perpetrated workplace aggression: An integrative model. *Sociology of Organizations, 15*, 163-196.

Bies, R. J. (2009). Sounds of silence: Identifying new motives and behaviors. In J. Greenberg & M. S. Edwards (Eds.), *Voice and silence in organizations* (pp. 157–171). Bingley, UK: Emerald Group Publishing.

Bliese, P. D. (2000). Within-group agreement, non-independence, and reliability: Implications for data aggregation and analysis. In K. J. Klein & S. W. J. Kozlowski (Eds.), *Multilevel theory, research, and methods in organizations: Foundations, extensions, and new directions* (p. 349–381). Jossey-Bass.

Bliese, P. (2016). *Multilevel* (Version 2.6) [Computer software]. https://CRAN.R-project.org/package=multilevel

Bochner, S. & Hesketh, B. (1994). Power distance, individualism/collectivism, and job-related attitudes in a culturally diverse work group. *Journal of Cross-Cultural Psychology, 25*, 233-257.

Bollen, K. A. (1989). *Structural equations with latent variables*. New York, NY: Wiley.

Bond, R., & Smith, P. B. (1996). Culture and conformity: A meta-analysis of studies using Asch's (1952b, 1956) line judgment task. *Psychological Bulletin*, *119*, 111–137.

Botero, I. C., & Van Dyne, L. (2009). Employee voice behavior: Interactive effects of LMX and power distance in the United States and Colombia. *Management Communication Quarterly*, *23*, 84–104.

Brett, J. M. (2007). *Negotiating globally: How to negotiate deals, resolve disputes, and make decisions across cultural boundaries* (2nd ed.). Jossey-Bass.

Brewer, P., & Venaik, S. (2011). Individualism-collectivism in Hofstede and GLOBE. *Journal of International Business Studies, 42*, 436–445.

Brewer, P., & Venaik, S. (2014). The ecological fallacy in national culture research. *Organization Studies, 35*, 1063-1086.

Brinsfield, C. T. (2013). Employee silence motives: Investigation of dimensionality and development of measures. *Journal of Organizational Behavior*, *34*, 671–697.

Brinsfield, C. T., Edwards, M. S., & Greenberg, J. (2009). Voice and silence in organizations: Historical review and current conceptualizations. In J. Greenberg & M. S. Edwards (Eds.), *Voice and silence in organizations* (pp. 3–33). Bingley, UK: Emerald Group.

Brislin, R. W. (1970). Back-translation for cross-cultural research. *Journal of Cross-Cultural Psychology*, *1*, 185–216.

Brockner, J., Ackerman, G., Greenberg, J., Gelfand, M.J., Francesco, A.M., Chen, Z.X., … & Shapiro, D. (2001). Culture and procedural justice: The influence of power distance on reactions to voice. *Journal of Experimental Social Psychology, 37*, 300–315.

Brown, T. A. (2015). *Confirmatory factor analysis for applied research* (2nd ed.). New York, NY: Guilford Press.

Chamberlin, M., Newton, D. W., & LePine, J. A. (2018). A meta-analysis of empowerment and voice as transmitters of high-performance managerial practices to job performance. *Journal of Organizational Behavior, 39*, 1296-1313.

Chao, G. T., & Moon, H. (2005). The Cultural Mosaic: A metatheory for understanding the complexity of culture. *Journal of Applied Psychology, 90*, 1128–1140.

Chen, Y. R., Leung, K., & Chen, C. C. (2009). Bringing national culture to the table: Making a difference with cross-cultural differences and perspectives. *Academy of Management Annals, 3*, 217-249.

Cieciuch, J., Davidov, E., Algesheimer, R., & Schmidt, P. (2018). Testing for approximate measurement invariance of human values in the European Social Survey. *Sociological Methods & Research*, *47*, 665–686.

Connelly, C.E, Cerne, M., Dysvik, A., & Skerlavaj, M. (2019). Understanding knowledge hiding in organizations. *Journal of Organizational Behavior*, *40*, 779–782.

Cortina, L. M., & Magley, V. J. (2003). Raising voice, risking retaliation: Events following interpersonal mistreatment in the workplace. *Journal of Occupational Health Psychology*, *8*, 247–265.

Covarrubias, P. (2007). (Un)biased in Western theory: Generative silence in American Indian communication. *Communication Monographs, 74*, 265-271.

Daniels, M. A., & Greguras, G. J. (2014). Exploring the nature of power distance: Implications for micro- and macro-level theories, processes, and outcomes. *Journal of Management, 40*, 1202-1229.

Davidov, E., Muthén, B. O., & Schmidt, P. (2018). Measurement invariance in cross-national studies: Challenging traditional approaches and evaluating new ones. *Sociological Methods & Research*, *47*, 631–636.

Den Hartog, D.N. (2004). Assertiveness. In In R. J. House, P. J. Hange, M. Javidan, P. W. Dorfman, & V. Gupta (Eds.), *Culture, leadership and organizations: The Globe study of 62 societies* (pp. 395-436). Thousand Oaks, CA: Sage.

Den Hartog, D. N., & Dickson, M. W. (2012). Leadership and culture. In D. V. Day & J. Antonakis (Eds.), *The nature of leadership* (2nd ed., pp. 393–436). Thousand Oaks, CA: SAGE Publications.

Dickson, M. W., BeShears, R. S., & Gupta, V. (2004). The impact of societal culture and industry on organizational culture. In R. J. House, P. J. Hange, M. Javidan, P. W. Dorfman, & V. Gupta (Eds.), *Culture, leadership and organizations: The Globe study of 62 societies* (pp. 74–93). Thousand Oaks, CA: Sage

Diez-Roux, A. (1998). Bringing context back into epidemiology: Variables and fallacies in multilevel analysis. *American Journal of Public Health, 88*, 216–222.

Doney, P. M., Cannon, J. P., & Mullen, M. R. (1998). Understanding the influence of national culture on the development of trust. *Academy of Management Review, 23*, 601-620.

Dorfman, P., Javidan, M., Hanges, P., Dastmalchian, A., & House, R. (2012). GLOBE: A twenty year journey into the intriguing world of culture and leadership. *Journal of World Business, 47*, 504-518.

Edmondson, A.C. (2018). *The fearless organization: Creating psychological afety in the workplace for learning, innovation, and growth.* Hoboken, NJ: John Wiley & Sons.

Edmondson, A. C., & Lei, Z. (2014). Psychological safety: The history, renaissance, and future of an interpersonal construct. *Annual Review of Organizational Psychology and Organizational Behavior, 1*, 23-43.

Edmondson, A. C., & McManus, S. E. (2007). Methodological fit in management field research. *Academy of Management Review*, *32*, 1246–1264.

Ehrenreich, B. (2001). *Nickel and dimed. On (not) getting by in America.* New York: Metropolitan.

Emrich, C.G., Denmark, F.L., & Den Hartog, D.N. (2004). Cross-cultural differences in gender egalitarianism: Implications for societies, organizations, and leaders. In R.J. House, P.J. Hanges, M. Javidan, P.W. Dorfman, & V. Gupta (Eds.), *Culture, leadership, and organizations: The GLOBE study of 62 societies* (pp. 343-394). Thousand Oaks, CA: Sage.

Enders, C. K. (2010). *Applied missing data analysis*. New York, NY: Guilford Press.

Evans, J. M., Hendron, M. G., & Oldroyd, J. B. (2015). Withholding the ace: The individual- and unit-level performance effects of self-reported and perceived knowledge hoarding. *Organization Science*, *26*, 494–510.

Ewing, J., & Bowley, G. (2015, December 13). The engineering of Volkswagen's aggressive ambition. *The New York Times*. New York, NY. Retrieved from https://www.nytimes.com/2015/12/14/business/the-engineering-of-volkswagens-aggressive-ambition.html

Fischer, R., & Schwartz, S. (2011). Whence differences in value priorities? Individual, cultural, or artefactual sources. *Journal of Cross-Cultural Psychology, 42*, 1127-1144.

Fontes, L. A. (2007). Sin vergüenza: Addressing shame with Latino victims of child sexual abuse and their families. *Journal of Child Sexual Abuse*, *16*, 61–83.

Frese, M. (2015). Cultural practices, norms, and values. *Journal of Cross-Cultural Psychology, 46*, 1327-1330.

Gelfand, M. J., Aycan, Z., Erez, M., & Leung, K. (2017). Cross-cultural industrial organizational psychology and organizational behavior: A hundred-year journey. *Journal of Applied Psychology, 102*(3), 1-16.

Gelfand, M., Bhawuk, D., Nishii, L. H., & Bechtold, D. (2004). Individualism and collectivism. In R.J. House, P.J. Hanges, M. Javidan, P.W. Dorfman, & V. Gupta (Eds.), *Culture, leadership, and organizations. The GLOBE study of 62 societies* (pp. 437-512). Thousand Oaks, CA: Sage.

Gelfand, M.J., Erez, M. & Aycan, Z. (2007). Cross cultural organizational behaviour. *Annual Review of Psychology, 58*, 479-514.

Gelfand, M. J., Nishii, L. H., & Raver, J. L. (2006). On the nature and importance of cultural tightness-looseness. *Journal of Applied Psychology, 91*, 1225-1244.

Gelfand, M. J., Raver, J. L., Nishii, L., Leslie, L. M., Lun, J., Lim, B. C., … & Aycan, Z. (2011). Differences between tight and loose cultures: A 33-nation study. *Science, 332*, 1100-1104.

Gibson, R., & Singh, J. P. (2003). *Wall of silence: The untold story of the medical mistakes that kill and injure millions of Americans*. Washington, DC: LifeLine Press.

Gioia, D.A. (1992). Pinto fires and personal ethics: A script analysis of missed opportunities. *Journal of Business Ethics, 11*, 379-389.

Global Leadership and Organizational Behavior Effectiveness (GLOBE) study (2020). GLOBE Phase 2 Aggregated Societal Level Data for Society Culture Scales: May 17, 2004. Retrieved from: https://globeproject.com/study_2004_2007?page_id=data#data

Gudykunst, W. B., Matsumoto, Y., Ting-Toomey, S., Nishida, T., Kim, K., & Heyman, S. (1996). The influence of cultural individualism-collectivism, self construals, and individual values on communication styles across cultures. *Human Communication Research, 22*, 510-543.

Hackman, J. R. (2003). Learning more by crossing levels: evidence from airplanes, hospitals, and orchestras. *Journal of Organizational Behavior, 24*, 905-922.

Hall, E. T. (1959). *The silent language*. Garden City, NY: Doubleday & Company.

Hall, E. T. (1976). *Beyond culture*. Garden City, NY: Anchor Press.

Hanges, P. & Dickson, M. (2004). The development and validation of the GLOBE culture and leadership scales. R.J. House, P.J. Hanges, M. Javidan, P.W. Dorfman, & V. Gupta (Eds.), *Culture, leadership, and organizations. The GLOBE study of 62 societies* (pp. 122-151). Thousand Oaks, CA: Sage.

Hasegawa, T., & Gudykunst, W. B. (1998). Silence in Japan and The United States. *Journal of Cross-Cultural Psychology, 29*, 668-684.

Hawass, H. H. (2016). Examining the antecedents of prosocial silence: A relational perspective. *EuroMed Journal of Business*, *11*, 248-271.

Henze, N., & Zirkler, B. (1990). A class of invariant consistent tests for multivariate normality. *Communications in Statistics – Theory and Methods*, *19*, 3595–3617.

Hirschman, A.O. (1970). *Exit, voice and loyalty: Responses to decline in firms, organizations and states.* Cambridge, MA: Harvard University Press.

Hofstede, G.J. (1980). *Culture's consequences: International differences in work-related values.* Beverly Hills, CA: Sage.

Hofstede, G. (2006). What did GLOBE really measure? Researchers' minds versus respondents' minds. *Journal of International Business Studies, 37*, 882–896.

Hofstede, G.J. (2020). Dimension data matrix. Retrieved from: https://geerthofstede.com/research-and-vsm/dimension-data-matrix/

House, R.J., Hanges, P.J., Javidan, M., Dorfman, P. W., & Gupta, V. (Eds.). (2004). *Culture, leadership, and organizations: The GLOBE study of 62 societies*. Thousand Oaks, CA: SAGE Publications.

Hox, J.J., Moerbeek, M., & van de Schoot, R. (2018). *Multilevel analysis: Techniques and applications* (3rd ed.). New York, NY: Routledge

Human Rights Watch (2020). *"I Was Hit So Many Times I Can't Count" Abuse of Child Athletes in Japan.* Retrieved from: https://www.hrw.org/report/2020/07/20/i-was-hit-so-many-times-i-cant-count/abuse-child-athletes-japan

Inglehart, R.F. (2018). *Cultural evolution. People's motivations are changing, and reshaping the world.* Cambridge: University Press.

Jain, A. K. (2015). An interpersonal perspective to study silence in Indian organizations: Investigation of dimensionality and development of measures. *Personnel Review, 44*, 1010-1036.

Jetten, J., & Hornsey, M. J. (2014). Deviance and dissent in groups. *Annual Review of Psychology, 65*, 461-485.

Johns, G. (2006) The essential impact of context on organizational behavior. *Academy of Management Review, 31*, 386-408.

Joshi, S. (2016). India needs a massive public campaign to break the silence around child sexual abuse. *Huffington Post*, 13.11.2016, retrieved from: https://www.huffingtonpost.in/2016/11/13/india-needs-a-massive-public-campaign-to-break-the-silence-aroun_a_21604963/.

Judge, T. A., & Long, D. M. (2012). Individual differences in leadership. In D. V. Day & J. Antonakis (Eds.), The nature of leadership (pp. 179-217). Los Angeles, CA: Sage.

Kabasakal, H., & Bodur, M. (2004). Humane orientation in societies, organizations and leader attributes. In R.J. House, P.J. Hanges, M. Javidan, P.W. Dorfman, & V. Gupta (Eds.), *Culture, leadership, and organizations: The GLOBE study of 62 societies* (pp. 564-601). Thousand Oaks, CA: Sage.

Khatri, N. (2009). Consequences of power distance orientation in organisations. Vision: *Journal of Business Perspective, 13*, 1–9.

Kim, E. S., Cao, C., Wang, Y., & Nguyen, D. T. (2017). Measurement invariance testing with many groups: A comparison of five approaches. *Structural Equation Modeling: A Multidisciplinary Journal*, *24*, 524–544.

Kirkman, B. L., Chen, G., Farh, J. L., Chen, Z. X., & Lowe, K. B. (2009). Individual power distance orientation and follower reactions to transformational leaders: A cross-level, cross-cultural examination. *Academy of Management Journal, 52*, 744-764.

Kirrane, M., O'Shea, D., Buckley, F., Grazi, A., & Prout, J. (2017). Investigating the role of discrete emotions in silence versus speaking up. *Journal of Occupational and Organizational Psychology*, *90*, 354–378.

Kish-Gephart, J. J., Detert, J. R., Treviño, L. K., & Edmondson, A. C. (2009). Silenced by fear: The nature, sources, and consequences of fear at work. *Research in Organizational Behavior, 29*, 163-193.

Kline, R. B. (2016). *Principles and practice of structural equation modeling* (4th ed.). New York, NY: Guilford Press.

Knoll, M., Hall, R. J., & Weigelt, O. (2019). A longitudinal study of the relationships between four differentially motivated forms of employee silence and burnout. *Journal of Occupational Health Psychology, 24*, 572-589.

Knoll, M. & van Dick, R. (2013). Do I hear the whistle...? A first attempt to measure four forms of employee silence and their correlates. *Journal of Business Ethics*, *113*, 349–362.

Knoll, M., Wegge, J., Unterrainer, C., Silva, S. A., & Jønsson, T. (2016). Is our knowledge of voice and silence in organizations growing? Building bridges and (re)discovering opportunities. *German Journal of Human Resource Management, 30*, 161-194.

Korkmaz, S., Goksuluk, D., & Zararsiz, G. (2014). MVN: An R package for assessing multivariate normality. *The R Journal 6*, 151-162.

Kroeber, A. L. & Kluckhohn, C. (1952). *Culture: A critical review of concepts and definitions* (Peabody Museum of American Archeology and Ethnology Papers 47). Cambridge, MA: Harvard University Press.

Kurzon, D. (2007). Towards a typology of silence. *Journal of Pragmatics*, *39*, 1673-1688.

Kwon, B., & Farndale, E. (2020). Employee voice viewed through a cross-cultural lens. *Human Resource Management Review, 30, .* Advance online publication.

Lam, L. W., & Xu, A. J. (2019). Power imbalance and employee silence: The role of abusive leadership, power distance orientation, and perceived organizational politics. *Applied Psychology, 68*, 513-546.

Leana, C. R., Mittal, V., & Stiehl, E. (2012). Organizational behavior and the working poor. *Organization Science*, *23*, 888–906.

Leung, A. K.-Y., & Cohen, D. (2011). Within- and between-culture variation: Individual differences and the cultural logics of honor, face, and dignity cultures. *Journal of Personality and Social Psychology, 100*, 507–526.

Lewin, D. (2015). The intersection of ADR and NER: A conceptual analysis and FedEx case. In P. J. Gollan, B. E. Kaufman, D. Taras, & A. Wilkinson (Eds.), *Voice and involvement at work: Experience with non-union representation* (pp. 341–365). New York, NY: Routledge.

Lüdecke, D., Makowski, D., Waggoner, P., Patil, I., & Ben-Shachar, M. S. (2021). *performance: Assessment of regression models performance* (Version 0.7.0) [Computer software]. https://cran.r-project.org/package=performance

Lytle, A., Brett, J., Barsness, Z., Tinsley, C., & Janssens, M. (1995). A paradigm for confirmatory cross-cultural research in organizational-behavior. *Research in organizational behavior: An annual series of analytical essays and critical reviews, 17*, 167-214.

Maas, C. J. M., & Hox, J. J. (2005). Sufficient sample sizes for multilevel modeling. *Journal of Research Methods for the Behavioral and Social Sciences*, *1*, 86–92.

Maree, J. (2016). From a culture of silence to a culture of insurgence: Black employee voice in South Africa over half a century. In A. Pyman, P.J. Gollan, A. Wilkinson, C. Xu, & S.

Kalfa (Eds.), *Employee voice in emerging economies* (Advances in Industrial and Labour Relations, Vol. 23, pp. 137-192) Bingley, UK: Emerald Group Publishing Ltd.

Markus, H. R., & Kitayama, S. (1991). Culture and the self: Implications for cognition, emotion, and motivation. *Psychological Review, 98*, 224–253.

Marsh, H. W., Guo, J., Parker, P. D., Nagengast, B., Asparouhov, T., Muthén, B. O., & Dicke, T. (2018). What to do when scalar invariance fails: The extended alignment method for multi-group factor analysis comparison of latent means across many groups. *Psychological Methods*, 23, 524–545.

Maxfield, D. (2016, December 7). How a culture of silence eats away at your company. *Harvard Business Review*. Brighton, MA. Retrieved from https://hbr.org/2016/12/how-a-culture-of-silence-eats-away-at-your-company

McCrae, R.R., Chan, W., Jussim, L., De Fruyt, F., Löckenhoff, C.E., De Bolle, M., ... & Terracciano, A. (2013). The inaccuracy of national character stereotypes. *Journal of Research in Personality, 47*, 831-842.

McNeish, D. M. (2018). Thanks coefficient alpha, we'll take it from here. *Psychological Methods*, 23, 412–433.

McSweeney, B. (2002). Hofstede's model of national cultural differences and their consequences: A triumph of faith - a failure of analysis. *Human Relations, 55*, 89-118.

Mendoza-Denton, R., & Mischel, W. (2007). Integrating system approaches to culture and personality: The cultural cognitive–affective processing system. In S. Kitayama & D. Cohen (Eds.), *Handbook of cultural psychology* (pp. 175–195). New York, NY: Guilford Press.

Merkin, R.S. (2018). *Saving face in business.* New York: Palgrave Macmillan.

Merkin, R.S., Taras, V., & Steel, P. (2014). State of the art themes in cross-cultural communication research: A systematic and meta-analytic review. *International Journal of Intercultural Relations*, 38, 1-23.

Miceli, M. P., Near, J. P., & Dworkin, T. M. (2008). *Whistle-blowing in organizations*. New York, NY: Routledge.

Middleton, W., Stavropoulos, P., Dorahy, M.J., Krüger, C., Lewis-Fernández, R., Martínez-Taboas, A., … Brand, B. (2014). Child abuse and the dynamics of silence. *Australian & New Zealand Journal of Psychiatry, 48*, 22–25.

Milliken, F. J., Morrison, E. W., & Hewlin, P. F. (2003). An exploratory study of employee silence: Issues that employees don't communicate upward and why. *Journal of Management Studies*, 40, 1453–1476.

Minkov, M., Dutt, P., Schachner, M., Morales, O., Sanchez, C., Jandosova, J., Khassenbekov, Y. & Mudd, B. (2017). A revision of Hofstede's individualism-collectivism dimension: A new national index from a 56-country study. *Cross Cultural & Strategic Management, 24*, 386-404.

Mondillon, L., Niedenthal, P. M., Brauer, M., Rohman, A., Dalle, N., & Uchida, Y. (2005). Beliefs about power and its relation to emotional experience: A comparison of Japan, France, Germany, and the United States. *Society for Personality and Social Psychology Bulletin, 31*, 1112-1122.

Morrison, E. W. (2014). Employee voice and silence. *Annual Review of Organizational Psychology and Organizational Behavior*, 1, 173–197.

Morrison, E. W., & Milliken, F. J. (2000). Organizational silence: A barrier to change and development in a pluralistic world. *Academy of Management Review*, 25, 706–725.

Morrison, E.W. & Rothman, N.B. (2009). Silence and the dynamics of power. In J. Greenberg & M.S. Edwards (Eds.), *Voice and silence in organizations* (pp. 111–134). Bingley, UK: Emerald.

Muthén, B. O., & Asparouhov, T. (2018). Recent methods for the study of measurement invariance with many groups: Alignment and random effects. *Sociological Methods &*

Research, *47*, 637–664.

Muthén, L. K., & Muthén, B. O. (2017). *Mplus user's guide.* (8th ed.). Los Angeles, CA: Muthén & Muthén.

NHS Survey Coordination Centre. (2017). *2017 NHS Staff Survey*. Oxford, UK. Retrieved from http://www.nhsstaffsurveys.com/Page/1064/Latest-Results/2017-Results/

Oetzel, J.G. & Ting-Toomey, S. (2003). Face concerns in interpersonal conflict: a cross-cultural empirical test of the face negotiation theory. *Communication Research, 30*, 599-624.

Ordóñez, L. D., Schweitzer, M. E., Galinsky, A. D., & Bazerman, M. H. (2009). Goals gone wild: The systematic side effects of overprescribing goal setting. *Academy of Management Perspectives, 23*, 6-16.

Perlow, L. & Repenning, N. (2009). The dynamics of silencing conflict. *Research in Organizational Behavior, 29*, 195-223.

Peterson, M. F., & Barreto, T. S. (2014). The like it or not proposition: Implications of societal characteristics for the cultural expertise and personal values of organization members. *Journal of Organizational Behavior,35*, 1134–1152.

Peterson, M.F., Søndergaard, M. & Kara, A. (2018). Traversing cultural boundaries in IB: The complex relationships between explicit country and implicit cultural group boundaries at multiple levels. *Journal of International Business Studies, 49*, 1081-1099.

Pinder, C. C., & Harlos, K. P. (2001). Employee silence: Quiescence and acquiescence as responses to perceived injustice. In *Research in Personnel and Human Resources Management* (Vol. 20, pp. 331–369). Amsterdam, NL: Elsevier.

Prasad, V. (2018). If anyone is listening, #MeToo: Breaking the culture of silence around sexual abuse through regulating non-disclosure agreements and secret settlements. *Boston College Law Review*, *59*, 2507–2549. Retrieved from https://lawdigitalcommons.bc.edu/bclr/vol59/iss7/8

R Development Core Team. (2020). R: A language and environment for statistical computing (Version 4.0.3) [Computer software]. Vienna, AT. https://cran.r-project.org/

Raykov, T., & Marcoulides, G. A. (2019). Thanks coefficient alpha, we still need you! *Educational and Psychological Measurement*, *79*, 200–210.

Revelle, W. (2018). *Using R and the psych package to find ω*. Chicago, IL, USA. Retrieved from http://www.personality-project.org/r/psych/HowTo/R_for_omega.pdf

Rhee, J., Dedahanov, A., & Lee, D. (2014). Relationships among power distance, collectivism, punishment, and aquiescent, defensive, or prosocial silence. *Social Behavior and Personality: An International Journal*, *42*, 705–720.

Rosseel, Y. (2012). Lavaan: An R package for structural equation modeling. *Journal of Statistical Software*, *48*, 1–36. doi:10.18637/jss.v048.i02

Rutkowski, L., & Svetina, D. (2014). Assessing the hypothesis of measurement invariance in the context of large-scale international surveys. *Educational and Psychological Measurement*, *74*, 31–57.

Schein, E.H. (2017). *Organizational culture and leadership.* Hoboken, NJ: Wiley.

Scherbaum, C. A., & Pesner, E. (2019). Power analysis for multilevel research. In S. E. Humphrey & J. M. LeBreton (Eds.), *The handbook of multilevel theory, measurement, and analysis.* (pp. 329–352). Washington, DC: APA.

Schlösser, O., Frese, M., Heintze, A.-M., Al-Najjar, M., Arciszewski, T., … Zhang, K. (2013). Humane orientation as a new cultural dimension of the GLOBE project: A validation study of the GLOBE Scale and out-group humane orientation in 25 countries. *Journal of Cross-Cultural Psychology, 44*, 535-551.

Schneider, B. (1987). The people make the place. *Personnel Psychology*, *40*, 437–453.

Schwartz, S. H. (2006). A theory of cultural value orientations: Explication and applications. *Comparative Sociology, 5*, 137-182.

Schwartz, S.H. (2008) *The 7 Schwartz cultural value orientation scores for 80 countries* [Internet Source]. Dataset: https://www.researchgate.net/publication/304715744_The_7_Schwartz_cultural_value_o rientation_scores_for_80_countries

Schwartz, S. H. (2014). Rethinking the concept and measurement of societal culture in light of empirical findings. *Journal of Cross-Cultural Psychology, 45*, 5-13.

Seligman, M.E.P. (1975). *Helplessness: On depression, development, and death*. San Francisco, CA: W. H. Freeman.

Sheriff, R. E. (2000). Exposing silence as cultural censorship: A Brazilian case. *American Anthropologist*, *102*, 114–132.

Singelis, T. M., Triandis, H. C., Bhawuk, D. P., and Gelfand, M. J. (1995). Horizontal and vertical dimensions of individualism and collectivism: a theoretical and measurement refinement. *Cross Cultural Research, 29*, 240-275.

Smith, P. B., Peterson, M. F., & Schwartz, S. H. (2002). Cultural Values, Sources of Guidance, and their Relevance to Managerial Behavior: A 47-Nation Study. *Journal of Cross-Cultural Psychology, 33*, 188–208.

Spector, P. E., Liu, C., & Sanchez, J. I. (2015). Methodological and substantive issues in conducting multinational and cross-cultural research. *Annual Review of Organizational Psychology and Organizational Behavior*, *2*, 101–131.

Stoel, R. D., Garre, F. G., Dolan, C., & van den Wittenboer, G. (2006). On the likelihood ratio test in structural equation modeling when parameters are subject to boundary constraints. *Psychological Methods*, *11*, 439–455.

Szabo, E., Brodbeck, F.C., den Hartog, D., Reber, G., Weibler, J. & Wunderer, R. (2002). The Germanic Europe cluster: Where employees have a voice. *Journal of World Business, 37*, 55-68.

Taras, V., Kirkman, B.L., & Steel, P. (2010). Examining the impact of Culture's consequences: a three-decade, multilevel, meta-analytic review of Hofstede's cultural value dimensions. *Journal of Applied Psychology. 95*, 405-439.

Taras, V., Rowney, J., & Steel, P. (2009). Half a century of measuring culture: Approaches, challenges, limitations and suggestions based on the analysis of 121 instruments for quantifying culture. *Journal of International Management, 15*, 50-75.

Taras, V., Steel, P., & Kirkman, B. L. (2016). Does country equate with culture? Beyond geography in the search for cultural entities. *Management International Review, 56,* 455-472.

Thomas, D. C., & Peterson, M. F. (2015). *Cross-cultural management: Essential concepts* (3rd ed.). Los Angeles, CA: SAGE.

Ting-Toomey, S. (2010). Applying dimensional values in understanding intercultural communication. *Communication Monographs, 77*, 169-180.

Ting-Toomey, S., Oetzel, J. G., & Yee-Jung, K. (2001). Self-construal types and conflict management styles. *Communication Reports, 14*, 87–104.

Triandis, H.C. (1996). The psychological measurement of cultural syndromes. *American Psychologist, 51*, 407-415.

Triandis, H.C. (2000). Culture and conflict. *International Journal of Psychology, 35*(2), 145-152.

Tsui, A.S., Nifadkar, S.S., & Ou, A.Y. (2007). Cross-national, cross-cultural organizational behavior research: Advances, gaps, and recommendations. *Journal of Management*, *33*, 426–478.

Tung, R. L., & Stahl, G. K. (2018). The tortuous evolution of the role of culture in IB research: What we know, what we don't know, and where we are headed. *Journal of International Business Studies, 49*, 1167-1189.

Umphress, E. E., Bingham, J. B., & Mitchell, M. S. (2010). Unethical behavior in the name of

the company: The moderating effect of organizational identification and positive reciprocity beliefs on unethical pro-organizational behavior. *Journal of Applied Psychology*, *95*, 769–780.

United Nations. (2014). *Concluding observations on the second periodic report of the Holy See*. New York, NY. Retrieved from https://www.refworld.org/docid/52f8a1544.html

Urbach, T., Den Hartog, D.N., Fay, D., Parker, S.K., & Strauss, K. (2020). Cultural variations in whether, why, how, and at what cost people are proactive: A followership perspective. *Organizational Psychology Review.* Advance online publication.

Uz, I. (2015). The index of cultural tightness and looseness among 68 countries. *Journal of Cross-Cultural Psychology, 46*, 319-335.

Van Dyne, L., Ang, S., & Botero, I. C. (2003). Conceptualizing employee silence and employee voice as multidimensional constructs. *Journal of Management Studies*, *40*, 1359–1392. doi:10.1111/1467-6486.00384

Van Dyne, L., Cummings, L. L., & McLean Parks, J. (1995). Extra-role behaviors: In pursuit of construct and definitional clarity (A bridge over muddied waters). In L. L. Cummings & B. M. Staw (Eds.), *Research in organizational behavior* (Vol. 17, pp. 215–285). Greenwich, CT: JAI Press.

Vandenberg, R. J., & Lance, C. E. (2000). A review and synthesis of the measurement invariance literature: Suggestions, practices, and recommendations for organizational research. *Organizational Research Methods*, *3*, 4–70.

Vignoles, V. L., Owe, E., Becker, M., Smith, P. B., Easterbrook, M. J., Brown, R., … & Bond, M. H. (2016). Beyond the 'east–west' dichotomy: Global variation in cultural models of selfhood. *Journal of Experimental Psychology: General, 145*, 966–1000.

Ward, A.-K., Ravlin, E. C., Klaas, B. S., Ployhart, R. E., & Buchan, N. R. (2016). When do high-context communicators speak up? Exploring contextual communication orientation and employee voice. *Journal of Applied Psychology, 101*, 1498-1511.

Weiss, M., & Morrison, E. W. (2019). Speaking up and moving up: How voice can enhance employees' social status. *Journal of Organizational Behavior*, *40*, 5-19.

Welzel, C., Inglehart, R., & Klingemann, H. (2002). The theory of human development: A cross-cultural analysis. *European Journal of Political Research 42*, 341-379.

Wilkinson, A., Mowbray, P., & Sun, J. J-M. (2018). Employee voice in the Asia Pacific. *Asian Pacific Journal of Human Resources*, *Early view*, 1-5.

World Health Organization (WHO) (2002). *World report on violence and health*. Geneva, CH: World Health Organization.

Yuan, K.-H., & Bentler, P. M. (1998). Robust mean and covariance structure analysis. *British Journal of Mathematical and Statistical Psychology, 51*, 63–88.

Table 1.

GLOBE Study Culture Dimensions (House et al., 2004) Examined in the Current Study and Their Relation to Differentially-motivated Silence Types

Cultural dimension[1]	Brief definition	Relationships with employee silence motives as found in our study[2]
Power distance	The degree to which members of a society expect power to be distributed equally or concentrated at higher levels.	As hypothesized, power distance was related to acquiescent and prosocial silence.
Assertiveness	The degree to which individuals are assertive, confrontational and aggressive in their relationships with others.	-
In-group collectivism	The degree to which members of a society express pride, loyalty, and cohesiveness in their organizations or families.	-
Institutional collectivism	The degree to which organizational and societal institutional practices encourage and reward collective distribution of resources and collective action.	Exploratory analyses showed a negative relationship with acquiescent silence.
Uncertainty avoidance	The extent to which members of a society rely on social norms, rules, and procedures to alleviate unpredictability of future events.	Exploratory analyses showed a negative relationship with opportunistic silence
Performance orientation	The degree to which a collective encourages and rewards group members for performance improvement and excellence.	-
Gender egalitarianism	The degree to which a collective minimizes gender inequality.	-
Humane orientation	The degree to which a society encourages and rewards individuals for being fair, altruistic, generous, caring and kind to others.	-
Future orientation	The degree to which members of a society engage in future-oriented behaviors such as planning, investing in the future, and delaying individual or collective gratification.	-

Note. [1]In this study, we used the societal practices scores to represent the cultural dimensions. [2]Only statistically significant results at $p < .05$ are reported.

Table 2

Demographic Details for Each Cultural Sample

Cultural unit	*n*	Age M (SD)	Gender (% fem.)	Manager (% yes)	Contract (% perm.)	*Language*	Cultural region[1]	City/ Region
Australia	259	44.39 (12.67)	_[3]	64	85	English	Anglo	Australia-wide
Belgium	171	33.16 (9.34)	65	12	79	Dutch	Germanic Europe	Flanders
Canada (English)	307	39.87 (12.06)	56	43	89	English	Anglo	5 regions[4]
Canada (French)	280	40.34 (12.47)	62	49	68	French	Anglo	Quebec
Chile	176	40.54 (8.75)	57	56	94	Spanish	Latin America	Area around Santiago
China	264	33.32 (6.08)	45	11	72	Chinese	Confucian Asia	Shenzhen
Colombia	157	30.24 (9.20)	55	31	61	Spanish	Latin America	Colombia-wide
Croatia	201	36.01 (9.32)	74	21	78	Croatian	Eastern Europe	Zadar county
Denmark	230	38.60 (12.87)	56	15	_[3]	Danish	Western Europe	Aarhus
France	244	39.10 (12.24)	50	43	84	French	Western Europe	Whole France
Germany	463	37.38 (12.87)	56	18	72	German	Germanic Europe	Western Germany
Greece	145	42.12 (10.15)	59	19	51	Greek	Eastern Europe	Macedonia
Great Britain	182	39.53 (10.43)	76	59	86	English	Anglo	UK-wide
Indonesia	202	39.41 (8.03)	63	33	89	Bahsa Indon.	Southern Asia	Central and western regions
India	319	33.95 (8.87)	67	35	77	English	Southern Asia	Whole India, major cities
Ireland	272	41.67 (9.95)	62	47	88	English	Anglo	Whole Ireland
Iran	256	38.96 (7.05)	30	42	75	Farsi	Southern Asia	5 regions[5]
Iraq	261	41.21 (9.40)	37	49	88	Arabic	Middle East	Iraq-wide
Italy	245	38.67 (12.95)	56	18	69	Italian	Western Europe	Piedmont
Japan	202	39.34 (10.49)	22	75	96	Japanese	Confucian Asia	Tokyo and Fukuoka
The Netherlands	201	39.02 (11.04)	48	33	89	Dutch	Western Europe	Whole Netherlands
Norway	189	45.11 (11.12)	35	28	96	Norwegian	Nordic Europe	Whole Norway
Pakistan	210	36.60 (7.85)	30	61	72	English	Southern Asia	Islamabad and Rawalpindi
Peru	246	32.39 (6.83)	55	_[3]	_[3]	Spanish	Latin America	Peru-wide
Poland	174	35.58 (8.37)	66	30	78	Polish	Eastern Europe	Northern Poland
Portugal	318	_[2]	62	25	75	Portuguese	Western Europe	Portugal-wide
Romania	273	42.54 (10.39)	59	29	89	Romanian	Eastern Europe	Lugoj, Western Romania
Russia	202	29.70 (11.42)	65	26	68	Russian	Eastern Europe	Moscow
Slovenia	301	44.06 (9.83)	48	81	88	Slovenian	Eastern Europe	Whole Slovenia
Spain	183	46.83 (9.62)	38	69	85	Spanish	Western Europe	Mainly in the South of Spain
Switzerland (French)	163	41.30 (10.10)	71	40	78	French	Germanic Europe	French-speaking part
Switzerland (German)	307	35.98 (10.77)	73	19	77	German	Germanic Europe	German-speaking part
Togo	190	36.94 (8.01)	27	48	67	English	Sub-Saharan Africa	Lomé
Turkey	204	32.25 (7.47)	49	78	88	Turkish	Middle East	Izmir
Uganda	225	30.73 (8.12)	44	50	66	English	Sub-Saharan Africa	Central and Eastern parts

Note. N = 8,222. Data were collected between 2014 and 2019. [1]Culture clusters as suggested by the Globe study, [2]Age was measured categorically, most frequent category was 18 – 24 years (26%); [3]Measure was not included in the survey [4]Nova Scotia; Ontario; Manitoba; Alberta; Brit. Columbia; [5]North-west provinces of Iran which are named Azerbaijani region, north-east, center, north-east, and north-west provinces.

Table 3

Descriptive Statistics, Standardized Cronbach Alphas, and Revelle's Total Omega for Employee Silence across 35 Samples

Sample	Acquiescent silence		Quiescent silence		Prosocial silence		Opportunistic silence	
	M (SD)	ω_t[1]	*M (SD)*	ω_t[1]	*M (SD)*	ω_t[1]	*M (SD)*	ω_t[1]
Australia	3.85 (1.61)	.90	3.71 (1.64)	.92	3.70 (1.41)	.87	3.06 (1.50)	.88
Belgium	3.48 (1.81)	.84	3.08 (1.56)	.81	3.36 (1.47)	.80	2.16 (1.12)	.66
Canada (English)	4.04 (1.85)	.89	3.85 (1.79)	.88	3.86 (1.71)	.87	3.43 (1.77)	.87
Canada (French)	3.49 (1.74)	.91	3.38 (1.70)	.89	3.41 (1.63)	.90	3.15 (1.63)	.90
Chile	3.08 (1.74)	.86	2.66 (1.45)	.77	3.09 (1.61)	.87	2.09 (1.21)	.77
China	2.57 (1.48)	.82	2.35 (1.27)	.75	3.11 (1.73)	.87	1.84 (1.09)	.78
Colombia	3.68 (1.87)	.86	3.35 (1.55)	.71	3.45 (1.63)	.82	2.73 (1.50)	.76
Croatia	4.60 (1.70)	.85	3.69 (1.57)	.75	4.56 (1.52)	.85	2.59 (1.23)	.68
Denmark	2.70 (1.43)	.86	2.80 (1.31)	.80	3.11 (1.29)	.84	2.18 (1.08)	.77
France	3.96 (1.77)	.91	3.56 (1.66)	.87	3.65 (1.46)	.79	2.87 (1.38)	.76
Germany	3.52 (1.78)	.89	2.96 (1.53)	.86	3.61 (1.43)	.83	2.19 (1.10)	.65
Great Britain	3.91 (1.79)	.88	3.48 (1.70)	.87	3.64 (1.49)	.81	2.45 (1.19)	.70
Greece	3.67 (1.84)	.86	2.79 (1.49)	.82	3.81 (1.76)	.89	2.18 (1.26)	.73
Indonesia	3.55 (1.87)	.84	3.47 (1.41)	.87	4.40 (1.34)	.86	3.11 (1.28)	.77
India	3.70 (1.45)	.75	3.35 (1.56)	.82	3.85 (1.46)	.75	3.03 (1.31)	.68
Ireland	3.49 (1.71)	.87	3.32 (1.60)	.86	3.56 (1.45)	.86	2.54 (1.26)	.77
Iran	4.44 (1.66)	.87	3.44 (1.55)	.81	3.85 (1.54)	.85	3.03 (1.41)	.77
Iraq	2.95 (1.63)	.93	2.50 (1.40)	.87	2.97 (1.51)	.91	2.21 (1.26)	.87
Italy	3.58 (1.66)	.81	2.96 (1.63)	.87	3.74 (1.49)	.80	2.44 (1.34)	.73
Japan	3.18 (1.37)	.77	3.14 (1.50)	.83	3.38 (1.43)	.83	2.52 (1.19)	.69
The Netherlands	3.40 (1.71)	.90	3.17 (1.53)	.86	3.23 (1.50)	.86	2.74 (1.51)	.91
Norway	3.51 (1.59)	.90	3.34 (1.39)	.86	3.81 (1.33)	.87	2.80 (1.28)	.85
Pakistan	2.92 (1.01)	.45	3.19 (1.09)	.39	2.90 (1.19)	.70	2.63 (1.02)	.55
Peru	3.21 (1.55)	.87	2.96 (1.54)	.89	3.37 (1.62)	.90	2.48 (1.25)	.82
Poland	3.71 (1.72)	.85	3.37 (1.52)	.85	3.68 (1.56)	.87	2.60 (1.31)	.70
Portugal	3.48 (1.77)	.85	3.19 (1.62)	.86	3.31 (1.55)	.83	2.32 (1.28)	.79
Romania	3.42 (1.64)	.82	2.72 (1.57)	.86	3.46 (1.50)	.77	2.47 (1.35)	.75
Russia	3.02 (1.48)	.80	3.28 (1.53)	.78	3.23 (1.52)	.81	2.83 (1.51)	.84
Slovenia	4.23 (1.75)	.88	3.73 (1.70)	.87	4.07 (1.51)	.83	3.18 (1.57)	.84
Spain	3.48 (1.79)	.89	2.95 (1.54)	.86	3.49 (1.59)	.83	2.10 (1.02)	.67
Switzerland (French)	3.60 (1.76)	.87	3.47 (1.61)	.84	3.87 (1.51)	.84	2.21 (0.97)	.68
Switzerland (German)	3.43 (1.80)	.89	3.09 (1.56)	.86	3.64 (1.46)	.82	2.07 (0.92)	.61
Togo	3.64 (1.65)	.75	3.46 (1.50)	.71	4.25 (1.53)	.82	2.54 (1.34)	73
Turkey	3.35 (1.67)	.81	3.33 (1.63)	.79	3.72 (1.62)	.83	2.32 (1.36)	.77
Uganda	3.24 (1.57)	.75	3.13 (1.48)	.66	3.59 (1.52)	.70	2.83 (1.34)	.65

Note. N = 8,222. [1]Revelle's (2018) total omega. Cronbach's alpha scores were in the same range, +/-.02, for all countries except Pakistan. For opportunistic silence, differences were slightly larger.

Table 4

Results of the Confirmatory Factor Analyses for the Full Sample

Model	X^2	df	p	CFI	TLI	RMSEA [90% CI]	SRMR	AIC
1. Four orthogonal factors	8,611.09	54	< .001	.74	.69	.17 [.17 – .17]	.31	349,721.28
2. One-factor model	7,336.16	54	< .001	.76	.71	.16 [.16 – .17]	.08	348,757.36
3. Second-order factor	1,269.34	50	< .001	.96	.95	.07 [.06 – .07]	.05	339,128.75
4. Four correlated factors	1,255.35	48	< .001	.96	.95	.07 [.07 – .07]	.05	339,114.58

Note. $N = 8,222$. All models were estimated using the MLR estimator and, as such, the X^2, CFI, TLI, and RMSEA represent the robust versions as produced by *lavaan* (Version 0.6-7; Rosseel, 2012). The measurement model with four correlated factors fits the data better than a second-order factor model, $\Delta X^2(2) = 12.71$, $p < .01$, $\Delta AIC = 14.18$. We also compared these measurement models excluding Colombia, Pakistan, and Togo due to their suboptimal individual fit indices (see Table OS-2). Again, the measurement model with four correlated factors fitted the data better than a second-order factor model, $\Delta X^2(2) = 18.61$, $p < .001$, $\Delta AIC = 22.42$.

Table 5

Results of the Measurement Invariance Assessment via Confirmatory Factor Analyses

Model	X^2	df	p	CFI	TLI	RMSEA [90% CI]	SRMR	ΔX^2	Δdf	p	ΔCFI	ΔRMSEA	Pass
1. Equal form (configural invariance)	3,504.96	1,680	< .001	.95	.93	.08 [.08 – .08]	.06	–	–	–	–	–	✓
2. + equal loadings (metric invariance)	4,058.27	1,952	< .001	.95	.94	.08 [.08 – .08]	.07	549.83	272	< .001	< .01	< .01	✓
3. + equal intercepts (scalar invariance)	5,467.77	2,224	< .001	.92	.91	.09 [.09 – .09]	.08	1,646.64	272	< .001	< .03	< .02	✗

Note. $N = 8{,}222$. All models were estimated using the MLR estimator and, as such, the X^2, CFI, TLI, and RMSEA represent the robust versions as produced by *lavaan* (Version 0.6-7; Rosseel, 2012). X^2 differences of the robust X^2 test statistics of the respective models were calculated following the procedure recommended by Bryant and Satorra (2012). To assess whether a particular measurement invariance held, we applied the cut-offs of **Δ**CFI ≤ .02 and **Δ**RMSEA ≤ .03 for test of Model 2 against Model 1, and **Δ**CFI ≤ .01 and **Δ**RMSEA ≤ .015 for test of Model 3 against Model 2.

Table 6

Intraclass and and Zero-order Correlations for Age, Gender, Managerial Status, and the Four Silence Types at Both Levels of Analysis

Variable	ICC(1)$_{uc}$[1]	ICC(1)$_c$[2]	ICC(2)$_{uc}$[1]	M[3]	SD[3]	1	2	3	4	5	6	7
1. Age	.14	–	.97	38.20	11.02	–	.18	.35*	.28	.14	.14	.14
2. Gender[4]	.07	–	.95	-[4]	-	.07***	–	.44**	-.18	-.15	-.20	.06
3. Managerial status[5]	.16	–	.98	-[5]	-	.04**	.10***	–	.19	.39*	.07	.38*
4. Acquiescent silence	.06	.06	.94	3.53	1.72	.00	-.03**	-.04**	–	.76***	.78***	.57***
5. Quiescent silence	.05	.05	.92	3.21	1.58	-.09***	-.04***	-.05***	.63***	–	.66***	.77***
6. Prosocial silence	.05	.06	.93	3.60	1.55	-.03**	-.03**	-.02	.44***	.55***	–	.44**
7. Opportunistic silence	.08	.08	.95	2.58	1.37	-.04**	.02*	-.01	.49***	.58***	.48***	–

Note. 8,222 employees from 35 samples. Below the diagonal, the pooled within-sample correlations are presented, and, above the diagonal, the sample size weighted between-sample correlations are presented. [1]The subscript "uc" indicates the respective unconditional *ICC*. [2]The subscript "c" indicates the conditional *ICC*(1) in that age, gender, and managerial status were controlled at level 1. [3]These descriptive statistics refer to the full sample – for the descriptive statistics of the specific samples, please avail yourself of Tables 2 and 3. [4]Gender was coded: 0 = female, 1 = male, 46% were male; Full sample: n_{female} = 4,277, n_{male} = 3,686, n_{NA} = 259. [5]Managerial status was coded: 0 = no, 1 = yes; 39% were managers; Full sample: N_{no} = 4,839, N_{yes} = 3,137, N_{NA} = 246. *p <.05, **p <.01, ***p < .001; all *p*-values stem from two-sided tests.

Table 7a.
Results of Separate Multilevel Models for Each of the Nine GLOBE Dimensions for Societal Practices (controlled for within-level variables)

	Acquiescent Silence				Quiescent Silence				Prosocial Silence				Opportunistic Silence			
	b*	*SE*	95% CI		*b**	*SE*	95% CI		*b**	*SE*	95% CI		*b**	*SE*	95% CI	
			lower	upper			lower	upper			lower	upper			lower	upper
Between-level																
Power distance	0.38*	0.16	0.07	0.70	0.13	0.16	-0.17	0.44	0.40*	0.17	0.07	0.72	0.12	0.18	-0.24	0.47
Assertiveness	0.22	0.15	-0.07	0.50	-0.12	0.20	-0.51	0.27	0.08	0.20	-0.31	0.46	-0.25	0.20	-0.64	0.13
In-group collectivism	0.15	0.25	-0.34	0.63	-0.03	0.22	-0.47	0.41	0.25	0.22	-0.19	0.68	0.20	0.23	-0.24	0.65
Institutional collectivism	-0.48***	0.13	-0.74	-0.22	-0.02	0.24	-0.48	0.45	-0.36	0.19	-0.73	0.01	0.09	0.19	-0.28	0.45
Future orientation	-0.10	0.20	-0.48	0.28	0.06	0.17	-0.27	0.39	-0.04	0.21	-0.45	0.38	-0.09	0.19	-0.47	0.29
Gender egalitarianism	0.06	0.27	-0.47	0.58	0.32	0.19	-0.06	0.69	-0.13	0.23	-0.59	0.33	0.35	0.20	-0.05	0.75
Human orientation	-0.18	0.16	-0.50	0.15	0.14	0.21	-0.28	0.55	0.05	0.22	-0.39	0.49	0.33	0.19	-0.05	0.72
Performance orientation	-0.00	0.22	-0.43	0.42	0.06	0.23	-0.39	0.51	-0.00	0.21	-0.42	0.42	0.01	0.23	-0.45	0.47
Uncertainty avoidance	-0.28	0.23	-0.73	0.18	-0.20	0.19	-0.58	0.18	-0.18	0.24	-0.65	0.29	-0.35*	0.17	-0.69	-0.01

Note. 5,036 observations from 22 samples. All coefficients derived from the fully standardized solution estimated using random-intercept multilevel models in M*plus* (Version 8.4; L. K. Muthén & Muthén, 2017). In every model, we controlled for age, gender, and managerial status at the within-level. *p* <.05, **p* <.01, ***p* < .001; all *p*-values stem from two-sided tests.

Table 7b.
Results of the Combined Multilevel Model for the Three GLOBE-Dimensions for Societal Practices Included in Hypotheses 1-3

	Acquiescent Silence				Quiescent Silence				Prosocial Silence				Opportunistic Silence			
			95% CI				95% CI				95% CI				95% CI	
	b*	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper
Within-level																
Gender	-0.03	0.02	-0.06	0.01	-0.01	0.02	-0.05	0.03	-0.02	0.02	-0.06	0.03	0.03	0.02	-0.00	0.06
Age	0.01	0.02	-0.23	0.04	-0.10***	0.01	-0.13	-0.08	-0.02	0.02	-0.06	0.01	-0.04*	0.02	-0.08	0.00
Manager	-0.04	0.02	-0.09	0.00	-0.04	0.02	-0.08	0.01	-0.02	0.02	-0.05	0.02	-0.02	0.03	-0.07	0.03
R^2_{Within}	.00				.00				.00				.01			
Between-level																
Assertiveness	0.11	0.14	-0.17	0.40	-0.22	0.16	-0.52	0.09	-0.01	0.19	-0.38	0.37	-0.25	0.18	-0.60	0.10
Ingroup-Collectivism	-0.23	0.32	-0.86	0.40	-0.36	0.32	-0.99	0.28	-0.09	0.33	-0.74	0.55	0.16	0.35	-0.54	0.85
Power Distance	0.54*	0.25	0.04	1.03	0.43	0.28	-0.12	0.97	0.47	0.30	-0.13	1.06	0.04	0.31	-0.58	0.65
$R^2_{Between}$	.20				.10				.16				.09			

Note. 5,036 observations from 22 samples. All coefficients derived from the fully standardized solution estimated using random-intercept multilevel models in M*plus* (Version 8.4; L. K. Muthén & Muthén, 2017). *p* <.05, **p* <.01, ***p* < .001; all *p*-values stem from two-sided tests.

Appendix

Table S-1
Translations of the Items of the Four Types of Employee Silence as Published in English in Knoll and van Dick (2013)

Item	English	Spanish	German	Italian	Turkish	Arabic
1	...because I would not have found a sympathetic ear, anyway.	…porque, en cualquier caso, no habría encontrado a nadie que quisiera escuchar.	…weil ich damit ohnehin kein Gehör finde.	…perchè non avrei trovato in ogni caso un ascolto comprensivo.	…beni dinleyecek birinin olmaması	... لأنني لم أجد أذنًا متعاطفة معي.
2	...because nothing would have changed, anyway.	…porque, en cualquier caso, nada habría cambiado	…weil sich sowieso nichts ändern wird.	…perchè non sarebbe cambiato nulla, in ogni caso.	…nasıl olsa hiçbir şeyin değişmeyeceği	... لأنه مهما قلت لن يتغير شيء.
3	...because my superiors are not open to proposals, concerns, or the like.	…porque mis superiores no están abiertos a nuevas propuestas, preocupaciones, etc.	…weil meine Vorgesetzten nicht offen für Vorschläge, Bedenken und ähnliches sind.	… perché i miei capi non sono aperti alle proposte, alle preoccupazioni o ad altro.	…üstlerimin öneri, endişe vb. düşüncelere açık olmaması	... لأن رؤسائي غير منفتحين على الاقتراحات أو المخاوف أو ما شابه.
4	... because of fear of negative consequences.	…por miedo a posibles consecuencias negativas para mí.	...weil ich Angst vor negativen Konsequenzen habe.	… perché ho paura delle conseguenze negative.	…olumsuz sonuçlardan korkuyor olmam	... بسبب الخوف من العواقب السلبية التي قد تحدث لي.
5	... to not make me vulnerable in the face of colleagues or superiors.	…para no estar en una posición vulnerable frente a compañeros o superiores.	...um mich gegenüber Kolleg(inn)en und Vorgesetzten nicht angreifbar zu machen.	… per non rendermi vulnerabile di fronte a colleghi o superiori.	…iş arkadaşlarımın veya üstlerimin karşısında zor duruma düşmemek	... حتى لا أبدو ضعيفًا بين زملائي أو مديري في العمل المباشر.
6	... because I feared there would be disadvantages from speaking up.	…. porque tuve miedo de las posibles desventajas de hablar.	...weil ich Angst habe, dass mir daraus Nachteile entstehen.	...perché temevo gli svantaggi che sarebbero derivati dal prendere posizione.	…açıkça konuşmanın getireceği olumsuzluklardan korkmam	... لكي لا تظهر عيوبي عند التكلم.
7	... because I did not want to embarrass others.	…porque no quiero avergonzar a otros.	...um andere nicht bloßzustellen.	…perchè non volevo mettere in imbarazzo gli altri.	…başkalarını utandırmak istememem	... لأنني لم أرد أن أتسبب بحرج للآخرين.
8	... because I did not want to hurt the feelings of colleagues or superiors.	…porque no quiero dañar los sentimientos de compañeros o superiores.	...um nicht die Gefühle von Kolleg(inn)en und/ oder Vorgesetzten zu verletzen.	…perchè non volevo ferire i sentimenti di colleghi o superiori	…iş arkadaşlarımın veya üstlerimin duygularını incitmek istememem	... لأنني لم أرغب في خدش مشاعر زملائي أو مديري في العمل المباشر.
9	... because I did not want others to get into trouble.	…porque no quiero meter a otros en problemas.	...damit andere keinen Ärger bekommen.	…perchè non volevo che altri finissero nei guai	…başkalarının sorun yaşamasını istememem	... لأنني لا أريد للآخرين أن يقعوا في المشاكل.
10	... because that would have led to avoidable additional work.	…porque me habría llevado a tener que hacer trabajo adicional.	...weil sonst nur unnötiger Aufwand auf mich zukommt.	… perché avrebbe portato a fare un lavoro aggiuntivo evitabile.	…aksi halde kaçınılmaz olarak daha fazla çalışmak zorunda olmak	... لأن ذلك كان قد يجعلني أقوم بعمل إضافي يمكن تجنبه.
11	... because of concerns that others could take an advantage of my ideas.	…por la preocupación de que otros podrían beneficiarse de mis ideas.	...weil ich Bedenken habe, dass andere von meinen Ideen profitieren könnten.	… per la preoccupazione che altri possano trarre vantaggio dalle mie idee.	…başkalarının benim fikirlerimden faydalanabileceği endişesi	... خشية أن يستفيد الآخرون من أفكاري.
12	... to not give away my knowledge advantage.	…para no revelar lo que sabía.	...um meinen Wissensvorsprung nicht preiszugeben.	… per non rivelare il mio vantaggio in termini di conoscenza.	…bilgi avantajımı kaçırmak/kaybetmek istememem	... لأني لم أرد إعطاء خبرتي ومعرفتي للآخرين.

Note. Items 1 – 3 = Acquiescent silence, items 4 – 6 = Quiescent silence, items 7 – 9 = Prosocial silence, items 10 – 12 = Opportunistic silence. In the respective surveys, items were presented in the following order: 4, 5, 7, 8, 1, 2, 3, 10, 9, 11, 6, 12. All items followed the item stem: "I remained silent at work, …".

Table S-1 (continued)

Translations of the Items of the Four Types of Employee Silence as Published in English in Knoll and van Dick (2013)

Item	Polish	French	Chinese	Persian (Iran sample)	Slovenian
1	…bo i tak nie znalazłbym/ znalazłabym zrozumienia.	… parce que de toute façon, on ne m'écouterait pas.	...是因为即便我说了，也没有人会留心。	زیرا گوش شنوایی پیدا نمی کنم	… saj tako ali tako ne bi našel sočutnega ušesa
2	…bo i tak nic by się zmieniło.	… parce que de toute façon, cela ne changerait rien.	...是因为说了也无济于事，事情根本不会因此而有所改变。	چون چیزی تغییر نمی کرد	… ker se tako ali tako nič ne bi spremenilo
3	…ponieważ moi przełożeni nie są otwarci na propozycje, wątpliwości i tym podobne kwestie.	… parce que mes supérieurs ne sont pas ouverts aux propositions, préoccupations ou autres.	...是因为我的上级并不乐于接受意见、建议或者其他的想法。	چون مافوق من به پیشنهادات و دغدغه ها یا مسایل این چنینی اهمیت نمی دهد	… ker moji nadrejeni niso odprti za predloge, pomisleke ali podobno
4	…ponieważ bałem/bałam się konsekwencji.	… parce que je crains des conséquences négatives.	...是因为我害怕得到消极反馈。	زیرا از پیامدهای منفی آن می ترسم	… zaradi strahu pred negativnimi posledicami
5	…żeby nie narazić się kolegom lub przełożonym.	… pour ne pas me rendre vulnérable vis-à-vis de mes collègues et supérieurs.	...是为了不被同事跟上级责备。	نمی خواهم وجهه ام را در مقابل همکاران یا مافوقم از دست بدهم	… da ne bi izpadel ranljiv pred kolegi ali nadrejenimi
6	…ponieważ bałem/am się ujemnych stron mojego wystąpienia.	… parce que je crains me retrouver en position défavorable.	...是因为我害怕自己会陷入劣势之中	از عواقب بد افشا کردن می ترسیدم	…ker sem se bal neprijetnosti, ki bi lahko izhajale iz tega
7	…ponieważ nie chciałem/chciałam innych wprawić w zakłopotanie.	… pour ne pas mettre autrui dans l'embarras.	...是为了让其他人不感到尴尬或难堪。	زیرا نمی خواستم دیگران را ناراحت کنم	… ker nisem hotel osramotiti drugih
8	…ponieważ nie chciałem/chciałam urazić uczuć kolegów lub przełożonych.	… pour ne pas blesser les susceptibilités de collègues et/ou de supérieurs.	...是为了不伤害同事或者上级的感情。	زیرا نمی خواستم احساسات همکاران و مافوقم را جریحه دار کنم	… ker nisem hotel prizadeti občutkov sodelavcev ali nadrejenih
9	…ponieważ nie chcę, żeby inni mieli kłopoty.	… pour éviter des difficultés à autrui.	...是因此，其他人便不会有所担心。	زیرا نمی خواستم دیگران را به دردسر بیندازم	…ker nočem, da bi drugi zašli v težave
10	…ponieważ to skończyłoby się przydzieleniem dodatkowej pracy, której można było uniknąć.	… parce que cela me ferait perdre du temps inutilement.	...是因为这只会导致更多的工作量，消耗更多的时间和精力。	زیرا منجر به انجام کارهای بیشری می شود	… ker bi to pripeljalo do dodatnega dela, ki se ga je mogoče izogniti
11	…ponieważ obawiałem/am się, że inni wykorzystają na swoją korzyść moje pomysły.	… parce que je crains que d'autres puissent profiter de mes idées.	...是因为我觉得，其他人将从我的想法中获益。	بخاطر اینکه نگران بودم دیگران از نظرات من بهره برداری کنند	…zaradi skrbi, da bi drugi lahko izkoristili moje ideje
12	…żeby nie ujawnić mojej przewagi wiedzy.	… pour ne pas divulguer mes connaissances.	...是因为我的不愿意把自己所知道的信息都暴露出来。	زیرا نمی خواستم اطلاعاتم را افشا کنم (یا برگ برنده ام را رو کنم)	...da ne bi izdal prednosti, ki izhajajo iz mojega znanja

Note. Items 1 – 3 = Acquiescent silence, items 4 – 6 = Quiescent silence, items 7 – 9 = Prosocial silence, items 10 – 12 = Opportunistic silence. In the respective surveys, items were presented in the following order: 4, 5, 7, 8, 1, 2, 3, 10, 9, 11, 6, 12. All items followed the item stem: "I remained silent at work, …".

Table S-1 (continued)

Translations of the Items of the Four Types of Employee Silence as Published in English in Knoll and van Dick (2013)

Item	Romanian	Danish	Japanese	Norwegian	Bahasa Indonesia
1	... pentru că nu aș fi găsit o ureche care să mă asculte, oricum.	… fordi ingen ville have hørt på mig alligevel	…いずれにせよ，共感してくれそうな人がいなかったからだ。	.. fordi jeg ville uansett ikke ha opplevd at noen ville høre på meg.	... karena saya belum menemukan pendengar yang peduli kepada saya
2	... pentru că nimic nu s-ar fi schimbat, oricum.	… fordi det ikke ville have ændret noget alligevel	…いずれにせよ，何にも変わらないと思ったからだ。	.. fordi det ville uansett ikke ha endret noe.	...karena tidak ada yang akan berubah meskipun saya bersuara
3	... pentru că superiorii mei nu sunt deschiși la propuneri, preocupări sau altele asemenea.	… fordi mine overordnede ikke er åbne overfor forslag, bekymringer eller lignende	…私の上司は提案や懸念に耳を貸そうとしないからだ。	..fordi mine overordnede ikke er åpne for bekymringer, forslag og den slags.	... karena atasan saya tidak terbuka untuk usulan, keprihatinan, atau hal sejenis lainnya
4	... din cauza fricii de consecințe negative.	… på grund af frygt for negative konsekvenser	…よくない結果を恐れたからだ。	..av frykt for negative konsekvenser.	...karena saya takut akan konsekuensi negatif yang mungkin terjadi
5	... să nu mă fac vulnerabil față de colegi sau superiori.	… for ikke at gøre mig sårbar overfor kolleger eller overordnede	…上司や同僚の前で傷つきたくなかったからだ。	..for ikke å gjøre meg sårbar overfor kolleger og overordnete.	...agar saya tidak menjadi sasaran kemarahan rekan kerja atau atasan
6	... pentru că m-am temut de dezavantajele de a vorbi.	… fordi jeg frygtede at det ville være til ulempe for mig at sige noget	…口を出すことによる不利益を恐れたからだ。	..fordi jeg fryktet at det å si fra ville være en ulempe for meg.	... karena saya takut akan timbulnya kerugian akibat membuka suara
7	... pentru că nu am vrut să îi încurc pe ceilalți.	… fordi jeg ikke ville sætte andre i en pinlig situation	…他人を困らせたくなかったからだ。	..fordi jeg ikke ønsket å sette andre i forlegenhet.	...karena saya tidak ingin mempermalukan orang lain
8	... pentru că nu am vrut să rănesc sentimentele colegilor sau superiorilor.	… fordi jeg ikke ville såre kollegers eller overordnedes følelser	…同僚や上司の気持ちを傷つけたくなかったからだ。	..fordi jeg ikke ønsket å såre følelsene til mine kolleger og overordnete.	...karena saya tidak ingin menyakiti perasaan rekan kerja atau atasan saya
9	... pentru că nu vreau ca alții să intre în necazuri.	… fordi jeg ikke ville bringe andre i vanskeligheder	…他人を面倒ごとに巻き込みたくないからだ。	..fordi jeg ikke ønsker å skape problemer for andre.	...karena saya tidak ingin orang lain mendapat masalah
10	... pentru că acest lucru ar fi dus la o muncă suplimentară care poate fi evitată.	… fordi det ville have medført ekstra arbejde, der ellers kunne undgås	…本来だったらしなくて良い仕事が増えると思ったからだ。	..fordi det ville føre til ekstra arbeid som ellers hadde blitt unngått.	... karena itu akan menyebabkan adanya pekerjaan tambahan yang sebenarnya dapat dihindari
11	... din cauza îngrijorărilor că alții ar putea profita de ideile mele.	… på grund af bekymring for, at andre kunne udnytte mine ideer til deres egen fordel	…自分のアイデアに他人がただ乗りすることを懸念したからだ。	.. fordi jeg var bekymret for at andre kunne dra fordeler av mine ideer.	... karena kekhawatiran bahwa orang lain dapat mengambil keuntungan dari ide-ide saya
12	... să nu renunț la avantajul cunoștințelor mele.	… for ikke at opgive min fordel ved at besidde særlig viden	…自分の有利な知識を見せたくなかったからだ。	.. fordi jeg ikke ville gi fra meg fordelen ved å vite om dette.	... agar tidak ada yang memanfaatkan informasi yang saya ketahui

Note. Items 1 – 3 = Acquiescent silence, items 4 – 6 = Quiescent silence, items 7 – 9 = Prosocial silence, items 10 – 12 = Opportunistic silence. In the respective surveys, items were presented in the following order: 4, 5, 7, 8, 1, 2, 3, 10, 9, 11, 6, 12. All items followed the item stem: "I remained silent at work, …".

Table S-1 (continued)

Translations of the Items of the Four Types of Employee Silence as Published in English in Knoll and van Dick (2013)

Item	Portuguese	Croatian	Greece	Dutch (Belgium/Netherlands)	Russian
1	... porque, de qualquer modo, não teria encontrado ninguém que me ouvisse.	... jer svejedno ne bih naišao/la na suosjećajnog sugovornika.	…γιατί δεν πρόκειται να εισακουστώ ούτως ή άλλως	…omdat ik sowieso toch geen luisterend oor gevonden zou hebben.	... потому что я бы не нашел того кто захочет послушать.
2	... porque, de qualquer maneira, nada mudaria.	... jer se ionako ništa ne bi promijenilo.	…γιατί έτσι κι αλλιώς δεν θα αλλάξει τίποτα.	…omdat er sowieso toch niets zou veranderen.	... потому что ничего не изменилось бы.
3	... porque os meus superiores não estão abertos a propostas, preocupações ou coisas parecidas.	... jer moji nadređeni nisu otvoreni za prijedloge, zabrinutosti ili slično.	…γιατί οι προϊστάμενοι μου δεν ήταν ανοιχτοί σε προτάσεις, ανησυχίες κ.λπ.	…omdat mijn leidinggevenden niet openstaan voor voorstellen, bedenkingen enzovoort.	... потому что моё начальство не открыто для предложений, проблем и тому подобного.
4	... por medo de consequências negativas.	… zbog straha od negativnih posljedica.	…γιατί φοβήθηκα ενδεχόμενες αρνητικέςσυνέπειες.	…omwille van angst voor negatieve gevolgen.	... из-за страха перед негативными последствиями.
5	... para não me tornar vulnerável face a colegas ou superiores.	… da ne postanem ranjiv/-a pred kolegama ili nadređenim.	…για να μην φανώευάλωτος/η απέναντι στουςσυναδέλφ'υς ή στουςπροϊσταμένους μου.	…om me niet kwetsbaar op te stellen ten opzichte van collega's of leidinggevenden.	... чтобы не сделать себя уязвимым перед коллегами или начальством.
6	... porque temi as desvantagens de falar desses temas.	... jer sam se bojao/la nepovoljnog položaja ako progovorim.	…γιατί φοβόμουν μην πέσωσεδυσμένεια, εάνμιλήσω.	…omdat ik bezorgd was om de nadelen van het aankaarten van de zaken.	... потому что я боялся неудобств от разговора.
7	... porque não queria envergonhar os outros.	... jer nisam htio/htjela posramiti druge.	…γιατί δενήθελα να ντροπιάσω τουςάλλους.	…omdat ik anderen niet voor schut wou zetten.	... потому что я не хотел никого смущать
8	... porque não queria ferir os sentimentos de colegas ou superiores.	... jer nisam htio/htjela povrijediti osjećaje kolega ili nadređenih.	…γιατί δενήθελα να πληγώσ' τα συναισθήματα τωνσυναδέλφων ή των προϊσταμένων μου.	…omdat ik de gevoelens van collega's of leidinggevenden niet wou kwetsen.	... потому что я не хотел обидеть коллег или начальника.
9	... porque não quero que os outros arranjem problemas.	... jer ne želim da drugi uđu u nevolje.	…γιατί δενήθελα να βάλωσε μπελάδεςτουςάλλους.	…omdat ik niet wou dat anderen in Iproblemen zouden komen	... потому что я не хочу, чтобы у других были неприятности.
10	... porque isso levaria a um trabalho adicional evitável.	... jer to bi dovelo do dodatnog posla koji se inače može izbjeći.	…γιατί αυτό θα είχεωςσυνέπεια περισσότερηδουλειά η οποία θα ήταν αναπόφευκτη.	…omdat dat tot vermijdbaar extra werk zou geleid hebben	потому что это привело бы к дополнительной работе.
11	... porque não quero que os outros se aproveitem das minhas ideias.	... zbog zabrinutosti da bi drugi mogli iskoristiti moje ideje.	…γιατί φοβόμουν να μηνεκμεταλλευτούν οιάλλοιτιςιδέεςμου.	…omdat ik bezorgd was dat anderen hun voordeel konden halen met mijn idee.	... из-за опасений, что другие могут воспользоваться моими идеями.
12	... para não afetar a vantagem que me dá o meu conhecimento.	... da ne izgubim prednost koju imam pred drugima zbog postojeće spoznaje.	…για να μην φανερώσωότιέχω περισσότερεςγνώσεις.	…om mijn kennisvoordeel niet uit handen te geven.	... потому что не хочу делиться этой информацией.

Note. Items 1 – 3 = Acquiescent silence, items 4 – 6 = Quiescent silence, items 7 – 9 = Prosocial silence, items 10 – 12 = Opportunistic silence. In the respective surveys, items were presented in the following order: 4, 5, 7, 8, 1, 2, 3, 10, 9, 11, 6, 12. All items followed the item stem: "I remained silent at work, …".

Online Appendix
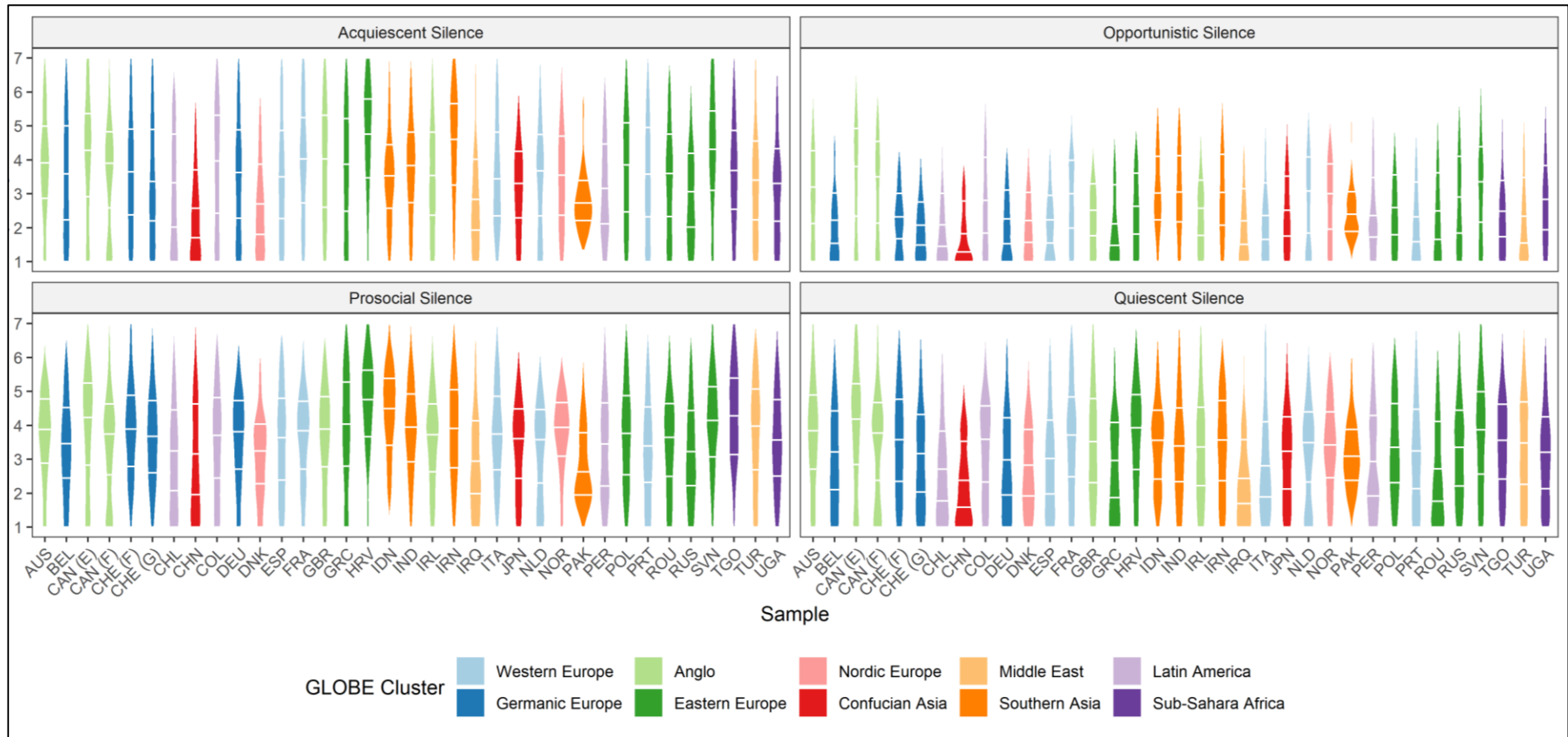
Figure OS-1. Violin plots showing distribution of scores for differentially-motivated silence types across 35 samples and respective assignment to cultural clusters as suggested in the GLOBE study.

Notes. Analysis of statistical differences using alignment method are shown in Table OS-4. Violin plots split into quartiles. AUS = Australia, BEL = Belgium, CAN (E) = Canada (English), CAN (F) = Canada (French), CHE (F) = Switzerland (French), CHE (G) = Switzerland (German), CHL = Chile, CHN = China, COL = Colombia, DEU = Germany, DNK = Denmark, ESP = Spain, FRA = France, GBR = Great Britain, GRC = Greece, HRV = Croatia, IRL = Ireland, IRN = Iran, ITA = Italy, JPN = Japan, NLD = The Netherlands, NOR = Norway, PER = Peru, POL = Poland, PRT = Portugal, ROU = Romania, RUS = Russia, SVN = Slovenia, TOG = Togo, TUR = Turkey, UGA = Uganda.

Remarks. As can be seen from the coloring of the violins in Figure OS-1, among the countries that ranked highest in silence scores were the Eastern European countries Croatia, Slovenia, and Poland, while Russia and Romania showed rather low silence scores. The two Sub-Saharan African countries that were included in the study, Togo and Uganda, showed diverging scores: while Togo ranked higher, Uganda was among the countries with lower silence scores. A similar pattern showed the Middle-East cluster with Turkey having higher and Iraq lower silence scores. Similarly, while among the Latin American countries Peru and Chile ranked low on silence scores, Colombia, on the other hand, was among the higher ranks. The remaining clusters were somewhat more internally consistent. The Anglo culture countries Canada, United Kingdom, and Australia were among the higher scoring countries as were Southern Asia countries Iran, India, and Indonesia. Among the countries that ranked lower on silence were Nordic and Western European countries Denmark and to some extent The Netherlands and Germany. Confucian Asia countries China and Japan scored rather low on most silence motives

Secondly, countries ranked distinctively in terms of silence motives (see also Table OS-4). Acquiescence and prosocial motives were highest ranking in most countries with acquiescent silence scoring particularly high in Slovenia, Croatia, Great Britain, France, and Iran. Prosocial silence had highest scores (compared to other motives) in China, Denmark, Indonesia, Togo, Uganda, Turkey, and Norway. Compared to other motives, fear as a motive for silence was rather high in Australia, English-speaking Canada, and Croatia. Across all samples, opportunistic motives were least frequently mentioned as a reason for silence. However, in comparison to the other motives, opportunistic silence was rather high in English-speaking Canada and Uganda.
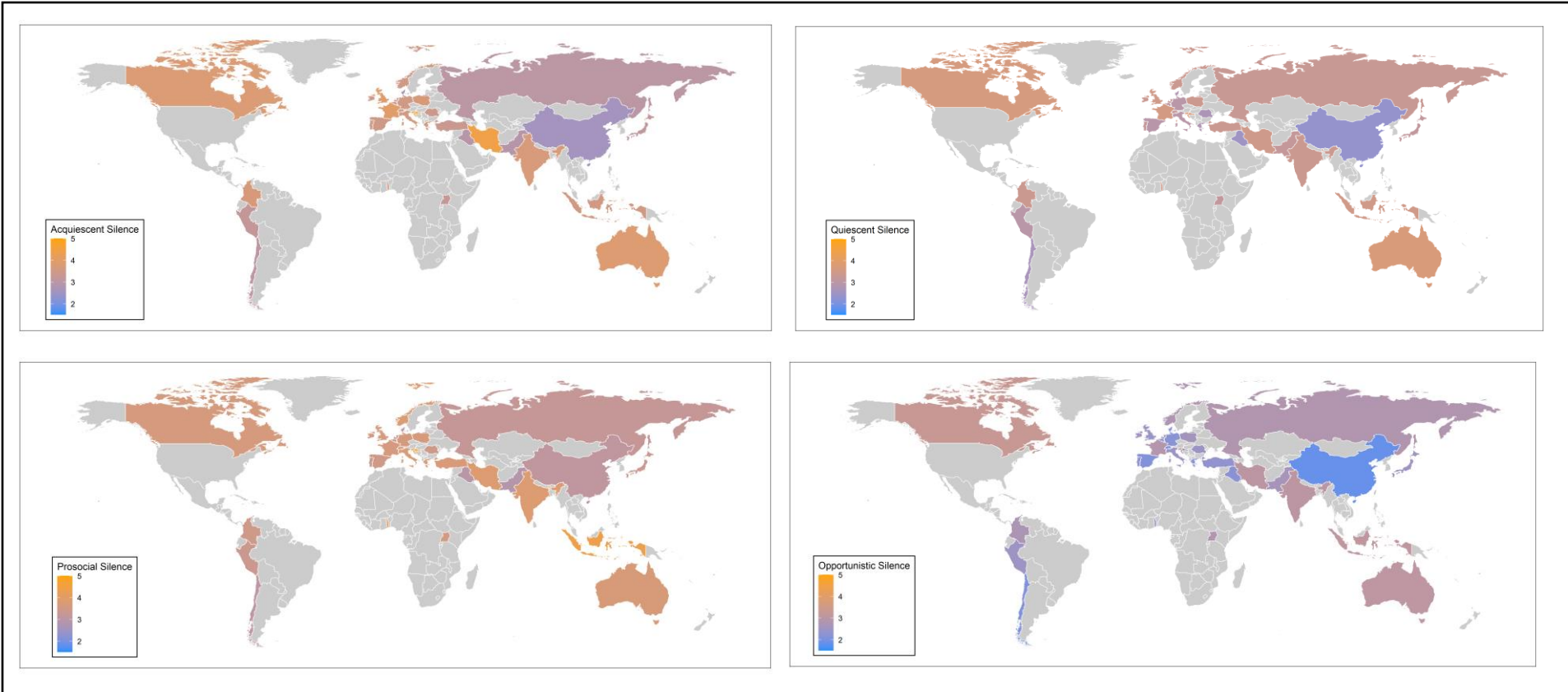
Figure OS-2. Visualisation of the scores for the four motives for employee silence in the countries covered in this study.

Table OS-1.

Sample Recruitment Procedure and Completion Context

Cultural unit	Recruitment procedure and completion context
Australia	A panel of employees from various organizations across the country. Invitation was via email to conduct an online survey, programmed on Qualtrics.
Belgium	Collaborators contacted 274 Dutch speaking employees from various Belgian organizations by email with a Qualtrics Hyperlink to fill out our questionnaire. Of the 180 respondents, 9 provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed).
Canada (E)	A panel of working professionals, representative for the Englishspeaking Canadian workforce, was recruited through an agency and captured with their online data collection system.
Canada (F)	A panel of working professionals, representative for the Frenchspeaking Canadian workforce, was recruited through an agency and captured with their online data collection system.
Chile	We used a snowball sampling. We emailed professional and personal contacts to invite them to participate, then asked each of them to share the survey with people who were currently working. From a total of 336 started, 207 submitted a complete questionnaire. Thirty-one respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Chilean sample consisted of 176 employees. In terms of sector, the majority were employed in 'other' (23.7%; i.e., real estate, IT, consulting, communication), education (19.3%), administration or government (4.8%), engineering or production (17.9%), retail or sales (10.1%), financial or insurance (9.7%) and healthcare (4.8%).
China	A convenience sample was obtained from a manufacturing firm located in Shenzhen, China. The survey was distributed through hardcopies and by emails with a Qualtrics hyperlink access to employees. The inclusion criterion was to be a native Chinese speaker employed in China. The questionnaire was completed by 281 participants. Seventeen respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Chinese sample consisted of 264 employees.
Colombia	A sample of 150 adult employees working in private companies and as self-workers were surveyed in Bogotá, Colombia, from the beginning of February to the end of May 2020. Data collection started with some volunteers from private companies, most of them from call centers. They were interviewed by the collaborator N.D.B. at their convenience, to be completed. Some of them were willing to share the survey with other employees using the snowball method. In total, 20% questionnaires were responded to in person (N.D.B. was next to them and they responded to it by computer or mobile phone). Due to the lockdown, the 80% completed the survey via online. As the lockdown prevented further meetings, the survey was also shared via social media in search-job groups and univeristary groups. In an attempt to collect further data, an insider, usually related to the Human Resources Department, sent an email to several individuals inside the company asking whether they would like to participate in an academic study related to silence in the organization, independent from the company and pointing to the questionnaire's link. Finally, an individual email was sent to the database of former postgraduate students asking for their help in an academic study. This second group of individuals is contacted from time to time by the University and is used to participate in several surveys both for academic and for marketing purposes. Some individuals were also contacted via social media.
Croatia	The collaborator applied the snowball sampling method administering the survey online with the Google Forms platform. The survey was distributed through several social media personal and professional pages, groups, and profiles (mostly on Facebook and Linkedin). The link to the survey was also distributed by sending emails directly to employees and by asking them to send the survey further to other fellow colleagues and employed acquaintances. The inclusion criterion was to be a native Croatian speaker employed in Croatia. Of the 207 respondents, 6 provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Croatian sample consisted of 201 employees.
Denmark	The Danish data was collected in collaboration with an engineering consulting group. Of the original sample of 278, 48 respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Danish sample consisted of 463 employees.
France	The French collaborator emailed professional and personal contacts in French organizations to invite them to participate. Of the original sample of 247, three respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final French sample consisted of 244 employees.
Germany	Three research assistants emailed professional and personal contacts in Western German organizations to invite them to participate. Of the original sample of 506 employees, 43 respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final German sample consisted of 463 employees.

Great Britain	A convenience sample of 199 UK employees was recruited via social media, and via personal contacts in several organizations who distributed the link to the online survey to colleagues. Responses were collected between August and October 2018. Inclusion criteria were being aged 18 or over, having been born in the UK, and working in the UK at the time of the survey participation. 17 respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final British sample consisted of 182 employees.
Greece	The Greek collaborators emailed professional and personal contacts in Greece to invite them to participate. Of the original sample of 193, 48 respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Greek sample consisted of 145 employees.
India	The collaborators sent a link to the questionnaire to professional networks such as LinkedIn, Facebook, Gmail, and even WhatsApp. No group messages or bulk emails were sent to the respondents. The respondent sample comprised of working professionals across India in major cities like Mumbai, Kolkata, New Delhi, Chennai, Hyderabad, Bangalore; and those working in branch offices in major towns like Asansol, Varanasi, Surat, Vadodara. The respondents were chosen from a wide cross-section of industries such as consumer goods, electronics, retail, steel manufacturing, banking, insurance, consulting, etc. Respondents mostly belonged to the frontline and middle-levels of management. The respondents were explained about the study before taking their informed consent.
Indonesia	A total of 212 participants were recruited through social media and through personal contacts who worked in a number of institutions in several cities from central and western regions of Indonesia. Data collection was carried out in May 2020 by distributing online survey link. Criteria for participants are: working in government or private institutions with a minimum tenure of 1 year.
Iran	Data were collected from various organizations in 5 regions in Iran. The questionnaire was collected from 288 participants of which 256 ones are included in analysis (11 were self-employed and excluded from analysis). Most participants were from Administration/Government (39%), Education (27%) and Finance services/ Insurance (17%).
Iraq	The sample of Iraqi employees was collected in spring 2020 online on Google Forms. Using a convenience sample, potential employees from various organizations in different regions of the country were contacted via social media, as well as via personal and professional contacts. In sum, 262 Iraqi employees – most representing education, administration/government, health care, and military – completely participated in the survey.
Italy	Data were collected in 2014 using the snowball sampling technique and the questionnaire was administered in both paper and pencil format and online with the LimeSurvey platform, depending on the preferences of the contacted individuals. The latter were then asked to involve other colleagues (from 2 to 4, where possible) by sending an Email prepared by the researchers containing a link to the online survey. The two inclusion criteria were having paid employment at the time of administration, and being a native Italian speaker and citizen. Thirty-seven respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed).
Ireland	A convenience sample of 272 employees were recruited via contacting alumni of executive education programmes from two universities in Ireland as well as through snowball sample, social media and personal contacts of the two researchers based in Ireland. The questionnaire was administered online using the Qualtrics platform. 317 people entered the survey and 272 complete responses were received. Inclusion criteria were that participants were over 18. And were working and living in Ireland at the time of the study.
Japan	Data were collected in five organizations including governmental (139), B2C e-commerce platform (22), sales of building materials (16), local business federation (3), and the construction and maintenance of water supply and sewerage system (24). Distributed by the personnel or infirm-training department of these organizations, the questionnaire was completed and mailed back by each participant. Data collection was supported by JSPS-KAKENHI (15K03621). Original sample: 204. Two respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Japanese sample consisted of 202 employees.
Netherlands	A panel of working professionals, representative for Dutch workforce, was recruited through an agency and captured with their online data collection system.
Norway	A panel of working professionals, representative for Norwegian workforce, was recruited through an agency and captured with their online data collection system.
Pakistan	Data were collected between Mid April 2020 and Mid June 2020 using the convenience sampling technique and the personal networks of the co-authors. The survey was mostly administered in paper and pencil format in the real work settings and few surveys were sent to participants through e-mail, depending on the preferences of the contacted individuals. Survey was conducted in English language as the participants expressed more ease with the language. The data collection process took place in the city of Islamabad and Rawalpindi. All the study participants were paid employees and native Pakistani citizens. Questionnaires were distributed to 250 individuals, out of which 219 participants provided complete data, and 31 respondents provided unusable data (i.e.,blank responses) – thus, the final Pakistani sample consisted of 219 employees.
Peru	A research assistant emailed professional and personal contacts in Peru to invite them to participate in an online study. All of the 246 respondents provided usable data (i.e., indication of gender and management status, or did not indicate themselves as self-employed).
Poland	The Polish sample was collected in 2015 in various organizations; main sectors were social sector and health care, education, and sales. Paper-and-pencil questionnaires were used. Of the original sample of 211, 37 respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Polish sample consisted of 174 employees.

Portugal	A convenience sample was obtained contacting workers in several organizations (around 60 direct contacts were made to workers in different organizations). These workers answered the survey and gathered more participants between their co-workers and friends. Of the original sample of 339, 21 respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Portuguese sample consisted of 318 employees.
Romania	The collaborator contacted 14 managers of organizations (public and private) from different branches and asked for permission to distribute the survey among their employees and 8 of them agreed. In August 2018 , the survey was distributed on paper directly to the participants. Of the original sample of 294, 21 respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Romanian sample consisted of 273 employees.
Russia	The Russian data were collected in collaboration with a Laboratory of Work Psychology in Lomonosov Moscow State University between July and September 2018. The data applying the snowball sampling method administering the survey online with the Google Forms platform. The original sample comprised 247 respondents of which 45 provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Romanian sample consisted of 202 employees.
Slovenia	A panel of working professionals, representative for Slovene workforce on gender, age and regional distribution. Respondents were recruited through a private research agency (Ninamedia) and captured with their online data collection system in October 2019. Final sample that completed the whole survey consisted of 325 respondsents.
Spain	193 Spanish workers answered an online survey for which we recruited employing the snowball sampling method. Ten respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final Spanish sample consisted of 183 employees.
Switzerland (F)	Employing a convenience sample of 173 residents in the French-speaking part of Switzerland that we recruited by posting on three local online professional groups in combination with a snowball sampling, we collected the data online using SoSci Survey (Version 3.1.04; Leiner, 2019) from February through May 2018. Ten respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final French speaking Swiss sample consisted of 163 employees.
Switzerland (G)	Employing a convenience sample of 336 residents in the German-speaking part of Switzerland that we recruited by posting on three local online professional groups in combination with student-recruited sampling (Wheeler, Shanine, Leon, & Whitman, 2014), we collected the data online using SoSci Survey (Version 3.1.04; Leiner, 2019) from January through March 2018. 29 respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed) – thus, the final French speaking Swiss sample consisted of 163 employees.
Togo	A convenience sample of 203 adult employees working in administration (civil servants) or in private companies were surveyed in the capital, Lomé, from the beginning of January to the end of April 2020 (4 months). Data collection started with civil servants working at the State University of Lomé, who volunteered for the study. They received paper-pencil questionnaires or a link (online) at their convenience, to be completed and sent to other employees (working in public institutions or private companies), using the snowball method. In total, 40% questionnaires were responded online.
Turkey	Data were collected between November 2018 and March 2019 using the convenience sampling technique and the personal networks of the co-authors. The survey was mostly administered in paper and pencil format in the real work settings and few surveys were sent to participants through e-mail, depending on the preferences of the contacted individuals. The data collection process took place in the city of Izmir, the third largest city in Turkey which is located in the west part of Turkey on the Aegean shores. The inclusion criteria of recruiting participants were having paid employment during the data collection process, and being a native Turkish speaker and citizen. Of the original sample of 217, 13 respondents provided unusable data (i.e., no indication of gender, no indication of management status, or indicated themselves as self-employed).
Uganda	In Uganda, the researcher worked in collaboration with the Graduate School of Makerere University Business School and the Uganda Manufacturers Association. We got letters of introduction from the University and the Uganda Manufacturers Association. The Ugandan targeted sample was 300 manufacturing employees. We used a combination of convenience sampling, snowballing and multiplicative networking approaches. We identified friends and graduate students working in the manufacturing firms, fixed appointments with them to issue the questionnaires and asked them to identify their other friends working in other manufacturing firms. We explained the study and the questionnaire to them and followed up several times to get back the filled questionnaires. To ensure responses closer to the targeted sample in light of the high levels of nonresponse we distributed 650 questionnaires (slightly more than twice the number of the targeted sample). Data was collected from the central and eastern parts of Uganda. The questionnaires were administered with the help of 2 well trained research assistants (graduate students studying Master in Human resource management and Master in organizational psychology). We received back 242 filled questionnaires. Out of this, 18 questionnaires were unusable due to incomplete data mainly relating to sample characteristics. Thus, the final Ugandan sample was 224. Uganda is largely an English speaking country therefore instrument was administered in English.

Table OS-2

Results of the Confirmatory Factor Analyses for Each Sample

Sample	*n*	X^2	*df*	*p*	CFI	TLI	RMSEA [90% CI]	SRMR
Australia	259	114.39	48	< .001	.96	.94	.09 [.07 – .11]	.05
Belgium	171	68.47	48	< .05	.95	.94	.07 [.02 – .10]	.07
Canada (English)	307	99.62	48	< .001	.97	.96	.07 [.05 – .09]	.05
Canada (French)	280	146.64	48	< .001	.94	.91	.12 [.10 – .15]	.06
Chile	176	72.80	48	< .05	.97	.95	.07 [.03 – .09]	.06
China	264	126.71	48	< .001	.93	.90	.09 [.08 – .11]	.06
Colombia	157	120.25	48	< .001	.89	.85	.12 [.09 – .14]	.10
Croatia	201	77.11	48	< .01	.96	.95	.06 [.03 – .09]	.06
Denmark	230	83.28	48	< .01	.95	.93	.08 [.05 – .11]	.05
France	244	87.14	48	< .001	.96	.95	.07 [.05 – .10]	.05
Germany	463	103.86	48	< .001	.97	.96	.06 [.04 –.08]	.05
Great Britain	182	87.91	48	< .001	.96	.94	.08 [.05 – .10]	.06
Greece	145	96.43	48	< .001	.94	.91	.09 [.07 – .12]	.07
India	319	74.96	48	< .01	.97	.96	.05 [.03 – .07]	.04
Indonesia	202	133.77	48	< .001	.91	.88	.11 [.09 – .13]	.07
Ireland	272	95.48	48	< .001	.96	.94	.07 [.05 – .09]	.06
Iran	256	107.18	48	< .001	.95	.93	.08 [.06 – .10]	.05
Iraq	261	93.43	48	< .001	.97	.96	.07 [.05 – .09]	.04
Italy	245	104.45	48	< .001	.94	.92	.08 [.06 – .10]	.07
Japan	202	98.76	48	< .001	.93	.91	.09 [.06 – .11]	.06
The Netherlands	201	96.13	48	< .001	.96	.95	.09 [.06 – .11]	.04
Norway	189	71.22	48	< .001	.98	.97	.06 [.03 – .09]	.04
Pakistan	210	113.25	48	< .001	.86	.82	.08 [.06 – .10]	.08
Peru	246	67.91	48	< .05	.98	.98	.05 [.02 – .08]	.04
Poland	174	56.50	48	.19	.99	.98	.04 [.00 – .07]	.05
Portugal	318	105.75	48	< .001	.96	.95	.07 [.05 – .09]	.06
Romania	273	85.96	48	< .01	.97	.95	.06 [.04 – .09]	.05
Russia	202	108.52	48	< .001	.92	.89	.10 [.08 –.13]	.06
Slovenia	301	120.01	48	< .001	.95	.93	.09 [.07 – .11]	.05
Spain	183	78.42	48	< .01	.96	.95	.06 [.04 – .09]	.09
Switzerland (French)	163	100.87	48	< .001	.93	.91	.09 [.06 – .11]	.09
Switzerland (German)	307	127.26	48	< .001	.95	.93	.08 [.06 – .10]	.07
Togo	190	196.96	48	< .001	.82	.75	.14 [.12 – .16]	.13
Turkey	204	101.96	48	< .01	.93	.91	.08 [.06 – .11]	.06
Uganda	225	70.74	48	< .05	.96	.94	.05 [.02 – .08]	.05

Note. N = 8,222. All models were estimated using the MLR estimator and, as such, the X^2, CFI, TLI, and RMSEA represent the robust versions as produced by *lavaan* (Version 0.6-6; Rosseel, 2012).

Table OS-3

Approximate Measurement (Non)Invariance for Intercepts and Loadings

	Loadings	Intercepts
Acquiescent silence		
Item 1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 (**7**) 8 9 10 (**11**) 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 (**29**) 30 31 32 33 34 35
Item 2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 (**19**) 20 (**21**) 22 23 24 25 26 27 28 29 30 31 32 33 34 35
Item 3	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
Quiescent silence		
Item 4	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
Item 5	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 (**9**) 10 11 12 13 (**14**) 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
Item 6	1 2 3 4 5 6 7 8 9 10 11 (**12**) 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 (**33**) 34 35
Prosocial silence		
Item 7	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 9 (**10**) 11 12 (**13**) 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
Item 8	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
Item 9	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 (**26**) (**27**) 28 29 30 31 32 33 34 35	1 2 3 4 5 (**6**) 7 (**8**) 9 (**10**) 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 (**26**) 27 28 29 30 31 32 33 34 35
Opportunistic silence		
Item 10	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 (**23**) 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 (**24**) 25 26 (**27**) 28 29 30 31 32 (**33**) 34 35
Item 11	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 (**26**) 27 28 29 30 31 32 33 34 35
Item 12	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	1 2 3 4 5 6 7 8 9 10 11 12 (**13**) 14 15 16 17 18 19 20 21 22 23 24 25 26 (**27**) 28 29 30 31 32 33 34 35

Note. $N = 8{,}222$. Item wordings are shown in the Appendix, Table S-1. Samples that are deemed to have a significantly noninvariant measurement parameter are shown as bolded within parentheses (see also Asparouhov & Muthén, 2014; Cieciuch et al., 2018). Sample numbers are 1 = AUS, Australia; 2 = BEL, Belgium; 3 = CAN (E), Canada (English); 4 = CAN (F), Canada (French); 5 = CHE (F), Switzerland (French); 6 = CHE (G), Switzerland (German); 7 = CHL, Chile; 8 = CHN, China; 9 = COL, Colombia; 10 = DEU, Germany; 11 = DNK, Denmark; 12 = ESP, Spain; 13 = FRA, France; 14 = GBR, Great Britain; 15 = GRC, Greece, 16 = HRV, Croatia; 17 = IDN, Indonesia; 18 = IND, India; 19 = IRL, Ireland; 20 = IRN, Iran; 21 = IRQ, Iraq; 22 = ITA, Italy; 23 = JPN, Japan; 24 = NLD, The Netherlands; 25 = NOR, Norway; 26 = PAK, Pakistan; 27 = PER, Peru; 28 = POL, Poland; 29 = PRT, Portugal; 30 = ROU, Romania; 31 = RUS, Russia; 32 = SVN, Slovenia; 33 = TGO, Togo; 34 = TUR, Turkey; 35 = UGA, Uganda

Table OS-4.
Latent Factor Mean Comparisons for the Differentially-motivated Silence Types across 35 Samples Representing 33 Countries.

	Acquiescent silence			Quiescent silence			Prosocial silence			Opportunistic silence		
Rank	Sample	Value	GSM	Sample	Value	GSM	Sample	Value	GSM	Sample	Value	GSM
1	HRV	0.53	32 3 13 14 1 18 28 9 15 33 5 22 17 29 25 10 4 12 2 19 6 24 34 30 23 35 7 27 31 21 26 11 8	CAN (E)	0.17	5 17 20 19 4 34 25 18 28 31 26 29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	HRV	0.65	32 5 3 18 20 25 15 6 34 22 1 28 14 10 13 19 35 12 30 4 23 27 2 9 29 31 24 8 7 11 21 26	CAN (E)	0.45	20 18 17 35 31 25 24 13 9 28 19 26 16 14 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
2	IRN	0.41	3 13 14 1 18 28 9 15 33 5 22 17 29 25 10 4 12 2 19 6 24 34 30 23 35 7 27 31 21 26 11 8	TGO	0.14	17 20 19 4 34 25 18 28 31 26 29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	IDN	0.57	32 5 3 18 20 25 15 6 34 22 1 28 14 10 13 19 35 12 30 4 23 27 2 9 29 31 24 8 7 11 21 26	SVN	0.27	35 31 25 24 13 9 28 19 26 16 14 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
3	SVN	0.30	14 1 18 28 9 15 33 5 22 17 29 25 10 4 12 2 19 6 24 34 30 23 35 7 27 31 21 26 11 8	SVN	0.11	17 20 19 4 34 25 18 28 31 26 29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	TGO	0.43	5 3 18 20 25 15 6 34 22 1 28 14 10 13 19 35 12 30 4 23 27 2 9 29 31 24 8 7 11 21 26	CAN (F)	0.25	35 31 25 24 13 9 28 19 26 16 14 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
4	CAN (E)	0.18	18 28 15 33 5 22 17 29 25 10 4 12 2 19 6 24 34 30 23 35 7 27 31 21 26 11 8	HRV	0.11	19 4 34 25 18 28 31 26 29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	SVN	0.28	6 34 22 1 28 14 10 13 19 35 12 30 4 23 27 2 9 29 31 24 8 7 11 21 26	IRN	0.17	13 28 19 26 16 14 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
5	FRA	0.12	33 22 17 29 25 10 4 12 2 19 6 24 34 30 23 35 7 27 31 21 26 11 8	GBR	0.04	31 26 29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	CHE (F)	0.15	10 13 19 35 12 30 4 23 27 2 9 29 31 24 8 7 11 21 26	IND	0.17	13 28 19 26 16 14 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
6	GBR	0.06	10 4 19 6 24 34 30 23 35 7 27 31 21 26 11 8	FRA	0.01	31 26 29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	CAN (E)	0.13	10 13 19 35 12 30 4 23 27 2 9 29 31 24 8 7 11 21 26	IDN	0.14	28 19 26 16 14 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
7	AUS	0.00	10 19 6 24 34 30 23 35 7 27 31 21 26 11 8	COL	0.00	31 26 29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	IND	0.13	10 13 19 35 12 30 4 23 27 2 9 29 31 24 8 7 11 21 26	UGA	0.04	19 26 16 14 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
8	IND	-0.04	6 24 34 30 23 35 7 27 31 21 26 11 8	AUS	0.00	31 26 29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	IRN	0.11	19 35 12 30 4 23 27 2 9 29 31 24 8 7 11 21 26	RUS	0.02	19 26 16 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
9	POL	-0.05	30 23 35 7 27 31 21 26 11 8	CHE (F)	-0.06	29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	NOR	0.09	12 30 4 23 27 2 9 29 31 24 8 7 11 21 26	AUS	0.00	19 26 16 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
10	COL	-0.06	23 35 7 27 31 21 26 11 8	IDN	-0.08	29 24 35 23 6 2 12 27 10 22 11 15 7 30 21 8	GRC	0.09	30 4 23 27 2 9 29 31 24 8 7 11 21 26	NOR	-0.01	19 26 30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
11	GRC	-0.10	23 35 7 27 31 21 26 11 8	IRN	-0.10	23 6 2 12 27 10 22 11 15 7 30 21 8	CHE (G)	0.04	30 4 23 27 2 9 29 31 24 8 7 11 21 26	NLD	-0.03	30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
12	TGO	-0.10	23 35 7 27 31 21 26 11 8	IRL	-0.13	6 12 27 10 22 11 15 7 30 21 8	TUR	0.04	4 23 27 2 9 29 31 24 8 7 11 21 26	FRA	-0.05	30 22 27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
13	CAN (F)	-0.11	35 7 27 31 21 26 11 8	CAN (F)	-0.13	6 12 27 10 22 11 15 7 30 21 8	ITA	0.02	4 23 27 2 9 29 31 24 8 7 11 21 26	COL	-0.06	27 29 21 33 23 34 15 11 2 12 7 10 5 6 8
14	ITA	-0.15	35 7 27 31 21 26 11 8	TUR	-0.15	6 12 27 10 22 11 15 7 30 21 8	AUS	0.00	4 23 27 2 29 31 24 8 7 11 21 26	POL	-0.13	29 21 33 23 34 15 11 2 12 7 10 5 6 8
15	IDN	-0.15	35 7 27 31 21 26 11 8	NOR	-0.16	6 12 27 10 22 11 15 7 30 21 8	POL	-0.02	29 31 24 8 7 11 21 26	IRL	-0.20	21 33 23 34 15 11 12 7 10 5 6 8

16	PRT	-0.15	35 7 27 31 21 26 11 8	IND	-0.16	6 12 27 10 22 11 15 7 30 21 8	GBR	-0.03	29 31 24 8 7 11 21 26	PAK	-0.20	21 33 23 34 15 11 12 7 10 5 6 8
17	NOR	-0.17	35 7 27 31 21 26 11 8	POL	-0.16	27 10 22 11 15 7 30 21 8	DEU	-0.05	29 31 24 8 7 11 21 26	HRV	-0.22	21 15 11 7 10 5 6 8
18	DEU	-0.17	35 7 27 31 21 26 11 8	RUS	-0.20	27 10 22 11 15 7 30 21 8	FRA	-0.08	29 31 24 8 7 11 21 26	GBR	-0.25	21 15 11 7 10 5 6 8
19	CAN (F)	-0.18	31 21 26 11 8	PAK	-0.25	10 11 15 7 30 21 8	IRL	-0.10	29 31 24 8 7 11 21 26	ROU	-0.25	21 15 11 7 10 5 6 8
20	ESP	-0.19	31 21 26 11 8	PRT	-0.26	10 11 15 7 30 21 8	UGA	-0.10	29 31 24 8 7 11 21 26	ITA	-0.29	7 10 5 6 8
21	BEL	-0.20	31 21 26 11 8	NLD	-0.27	11 15 7 30 21 8	ESP	-0.15	7 11 21 26	PER	-0.230	7 10 5 6 8
22	IRL	-0.21	31 21 26 11 8	UGA	-0.28	11 15 7 30 21 8	ROU	-0.17	7 11 21 26	PRT	-0.35	10 5 6 8
23	CHE (G)	-0.23	31 21 26 11 8	JPN	-0.30	11 7 30 21 8	CAN (F)	-0.21	11 21 26	IRQ	-0.42	6 8
24	NLD	-0.25	21 26 11 8	CHE (G)	-0.33	7 30 21 8	JPN	-0.22	21 26	TGO	-0.42	6 8
25	TUR	-0.27	21 26 11 8	BEL	-0.35	30 21 8	PER	-0.23	21 26	JPN	-0.43	6 8
26	ROU	-0.28	21 26 11 8	ESP	-0.39	30 21 8	BEL	-0.25	21 26	TUR	-0.43	6 8
27	JPN	-0.34	26 11 8	PER	-0.40	30 21 8	COL	-0.25	21 26	GRC	-0.43	6 8
28	UGA	-0.35	26 11 8	DEU	-0.41	30 21 8	PRT	-0.30	21 26	DNK	-0.44	6 8
29	CHL	-0.35	26 11 8	ITA	-0.41	21 8	RUS	-0.34	21 26	BEL	-0.46	6 8
30	PER	-0.37	26 11 8	DNK	-0.50	21 8	NLD	-0.35	26	ESP	-0.48	6 8
31	RUS	-0.44	8	GRC	-0.53	8	CHN	-0.38		CHL	-0.48	6 8
32	IRQ	-0.52	8	CHL	-0.55	8	CHL	-0.41		DEU	-0.51	6 8
33	PAK	-0.54	8	ROU	-0.57	8	AUS	-0.44		CHE (F)	-0.55	
34	DNK	-0.65		IRQ	-0.70		IRQ	-0.55		CHE (G)	-0.69	
35	CHN	-0.76		CHN	-0.78		PAK	-0.56		CHN	-0.72	

Note. N = 8,222. Latent factor mean comparisons derived from the alignment method by Asparouhov and Muthén (2014). Sample numbers are 1 = AUS, Australia; 2 = BEL, Belgium; 3 = CAN (E), Canada (English); 4 = CAN (F), Canada (French); 5 = CHE (F), Switzerland (French); 6 = CHE (G), Switzerland (German); 7 = CHL, Chile; 8 = CHN, China; 9 = COL, Colombia; 10 = DEU, Germany; 11 = DNK, Denmark; 12 = ESP, Spain; 13 = FRA, France; 14 = GBR, Great Britain; 15 = GRC, Greece, 16 = HRV, Croatia; 17 = IDN, Indonesia; 18 = IND, India; 19 = IRL, Ireland; 20 = IRN, Iran; 21 = IRQ, Iraq; 22 = ITA, Italy; 23 = JPN, Japan; 24 = NLD, The Netherlands; 25 = NOR, Norway; 26 = PAK, Pakistan; 27 = PER, Peru; 28 = POL, Poland; 29 = PRT, Portugal; 30 = ROU, Romania; 31 = RUS, Russia; 32 = SVN, Slovenia; 33 = TGO, Togo; 34 = TUR, Turkey; 35 = UGA, Uganda.

Table OS-5.
Additional Cultural Frameworks and Concepts that Might be Relevant for our Understanding of Employee Silence

Hofstede's culture dimensions (Hofstede, 1980)	
Power distance	The degree to which the less powerful members of a society accept and expect that power is distributed unequally.
Individualism vs. collectivism	Extent to which a society prefers a loosely-knit social framework in which individuals are expected to take care of only themselves and their immediate families vs. a tightly-knit framework in which individuals can expect ingroup members to look after them in exchange for unquestioning loyalty.
Indulgence vs. restraint	The extent to which a society allows vs. represses relatively free gratification of basic and natural human drives related to enjoying life and having fun.
Long-term vs. short-term orientation	The degree to which societies prefer to prepare for the future vs. maintain time-honoured traditions and norms while viewing societal change with suspicion.
Uncertainty avoidance	The degree to which the members of a society feel uncomfortable with uncertainty and ambiguity.
Masculinity vs. femininity	The degree to which a society values competition, achievement, heroism, and assertiveness vs. cooperativeness, modesty, and caring for the weak.
Culture Value Orientations (Schwartz, 2006)	
are based on the idea that cultural values are shared conceptions of what is good and desirable in a culture and suggested that these eventually shape and justify individual and group beliefs, actions, and goals. Schwartz suggested three meta-dimensions of cultural values that are derived from how members of societies deal with three issues in regulating human activity	
Embeddedness	The degree to which members of a society are viewed as entities embedded in the collectivity who find meaning through social relationships, striving toward the societies' shared goals, and participating in its shared way of life.
Intellectual and affective autonomy	The degree to which members of a society are viewed as autonomous entities who pursue, cultivate, and express their own preferences, feelings, and ideas (autonomy pole).
Hierarchy	Extent to which actions are coordinated through the ascription of roles, norms, and obligations
Egalitarianism	Extent to which members internalize a commitment to cooperate and feel concern for everyone's welfare
Harmony	Extent to which cultures value trying to understand and appreciate
Mastery	Extent to which cultures value self-assertiveness in order to master, direct, and change the natural and social environment
Tight-loose cultures (Gelfand et al., 2006, 2011)	
Tight vs. loose cultures	The degree to which societies have clear and pervasive norms and the degree of tolerance there is for deviance from norms within these societies. Tight cultures are characterized by strong norms, socialization, monitoring, and sanctioning of norm deviations whereas within loose cultures norm deviation is more tolerated and facilitated through loose socialization.
Individualism-collectivism (Minkov et al., 2017)	
Individualism-collectivism	The extent to which members are expected to strive for individual self-realization and social ascendancy compared to conforming to societal rules

Table OS-6a. *Results of the Separate Multilevel Models for the Hofstede Measures*

	Acquiescent Silence				Quiescent Silence				Prosocial Silence				Opportunistic Silence			
			95% CI				95% CI				95% CI				95% CI	
	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper
Between-level																
Individualism[1]	0.10	0.18	-0.26	0.45	0.15	0.20	-0.23	0.54	-0.12	0.21	-0.54	0.30	0.00	0.20	-0.39	0.39
Indulgence vs. restraint[2]	0.17	0.19	-0.20	0.53	0.24	0.17	-0.09	0.58	0.13	0.23	-0.32	0.58	0.02	0.17	-0.31	0.34
Long-term orientation[2]	-0.32	0.17	-0.65	0.02	-0.31	0.16	-0.63	0.00	-0.22	0.18	-0.57	0.13	-0.21	0.17	-0.54	0.12
Masculinity[1]	-0.04	0.18	-0.39	0.32	-0.14	0.17	-0.48	0.19	-0.02	0.17	-0.34	0.31	-0.26	0.15	-0.54	0.03
Power distance[1]	0.08	0.20	-0.31	0.48	-0.03	0.20	-0.42	0.37	0.21	0.18	-0.15	0.56	0.13	0.18	-0.22	0.48
Uncertainty avoidance[1]	0.19	0.19	-0.17	0.56	-0.01	0.23	-0.47	0.44	0.01	0.18	-0.34	0.36	-0.11	0.20	-0.51	0.28

Note. [1]6,873 observations from 31 samples; [2]6,016 observations from 27 samples. All coefficients derived from the fully standardized solution estimated using random-intercept multilevel models in M*plus* (Version 8.4; L. K. Muthén & Muthén, 2017). In every model, we controlled for age, gender, and managerial status at the within-level. *p <.05, **p <.01, ***p < .001; all p-values stem from two-sided tests.

Table 6b.
Results of the Separate Multilevel Models for the Schwartz Cultural Value Orientation Measures

	Acquiescent Silence				Quiescent Silence				Prosocial Silence				Opportunistic Silence			
			95% CI				95% CI				95% CI				95% CI	
	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper
Between-level																
Affective Autonomy	0.12	0.19	-0.26	0.50	0.26	0.14	-0.02	0.53	0.07	0.15	-0.24	0.37	-0.06	0.17	-0.39	0.27
Egalitarianism	0.02	0.19	-0.36	0.40	-0.02	0.23	-0.46	0.42	-0.14	0.20	-0.52	0.25	-0.30	0.21	-0.71	0.12
Embeddedness	0.11	0.19	-0.27	0.49	0.10	0.14	-0.19	0.38	0.21	0.23	-0.24	0.65	0.33*	0.16	0.02	0.65
Harmony	-0.05	0.18	-0.41	0.31	-0.16	0.21	-0.57	0.26	0.04	0.16	-0.27	0.35	-0.33	0.19	-0.70	0.04
Hierarchy	-0.08	0.25	-0.57	0.41	-0.12	0.24	-0.60	0.35	-0.05	0.18	-0.40	0.31	0.01	0.23	-0.44	0.46
Intellectual Autonomy	0.09	0.19	-0.28	0.46	0.10	0.16	-0.20	0.41	0.02	0.21	-0.39	0.43	-0.21	0.17	-0.54	0.11
Mastery	-0.23	0.20	-0.62	0.16	-0.36	0.22	-0.79	0.07	-0.15	0.19	-0.52	0.22	-0.10	0.24	-0.57	0.37

Note. 6,684 observations from 30 samples. All coefficients derived from the fully standardized solution estimated using random-intercept multilevel models in M*plus* (Version 8.4; L. K. Muthén & Muthén, 2017). In every model, we controlled for age, gender, and managerial status at the within-level. *p <.05, **p <.01, ***p < .001; all p-values stem from two-sided tests.

Table OS-6c. *Results of the Separate Multilevel Models for Cultural Tightness Measures*

	Acquiescent Silence				Quiescent Silence				Prosocial Silence				Opportunistic Silence			
			95% CI				95% CI				95% CI				95% CI	
	b*	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper
Between-level																
Gelfand Tightness[1]	-0.34	0.20	-0.73	0.06	0.15	0.17	-0.18	0.48	-0.15	0.40	-0.93	0.63	0.30	0.25	-0.19	0.79
Uz Tightness domain specific[2]	0.20	0.22	-0.23	0.63	0.13	0.19	-0.25	0.50	0.06	0.27	-0.47	0.59	0.05	0.22	-0.39	0.49
Uz Tightness domain general[3]	0.20	0.24	-0.26	0.67	-0.07	0.18	-0.42	0.28	-0.06	0.32	-0.69	0.57	-0.13	0.21	-0.54	0.29
Uz Tightness combination score[3]	-0.04	0.16	-0.35	0.26	-0.10	0.18	-0.44	0.25	-0.46***	0.13	-0.73	-0.20	-0.23	0.22	-0.67	0.21

Note. [1]3,270 observations from 15 samples; [2]5,891 from 26 samples; [3]5,432 from 24 samples. All coefficients derived from the fully standardized solution estimated using random-intercept multilevel models in M*plus* (Version 8.4; L. K. Muthén & Muthén, 2017). In every model, we controlled for age, gender, and managerial status at the within-level. *p <.05, **p <.01, ***p < .001; all *p*-values stem from two-sided tests.

Table OS-6d. *Results of the Individual Multilevel Models for Minkov and colleagues's (2017) Individualism-Collectivism Measure*

	Acquiescent Silence				Quiescent Silence				Prosocial Silence				Opportunistic Silence			
			95% CI				95% CI				95% CI				95% CI	
	b*	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper	*b**	*SE*	lower	upper
Within-level																
Gender	-0.04**	0.02	-0.07	-0.01	-0.04*	0.02	-0.07	-0.01	-0.03*	0.02	-0.06	0.00	0.04**	0.02	0.01	0.07
Age	0.01	0.02	-0.03	0.05	-0.10***	0.02	-0.13	-0.07	-0.02	0.02	-0.06	0.02	-0.04	0.02	-0.08	0.00
Manager	-0.04*	0.02	-0.08	-0.00	-0.05*	0.02	-0.09	-0.00	-0.03	0.02	-0.07	0.01	-0.02	0.03	-0.07	004
R^2_{Within}	.00				.00				.00				.02			
Between-level																
Individualism-collectivism	0.04	0.20	-0.35	0.42	0.10	0.19	-0.28	0.47	-0.34	0.24	-0.81	0.13	-0.20	0.20	-0.59	0.20
$R^2_{Between}$	.00				.04				.11				.01			

Note. 5,501 observations from 25 samples for which country-scores are provided by Minkov and colleagues (2017). All coefficients derived from the fully standardized solution estimated using random-intercept multilevel models in M*plus* (Version 8.4; L. K. Muthén & Muthén, 2017). *p <.05, *p <.01,*p < .001; all *p*-values stem from two-sided tests.