

The Role of Nonverbal Behavior in Leadership: An Integrative Review

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### The Role of Nonverbal Behavior for Leadership: An Integrative Review

One of the main activities of leaders is interacting with others (e.g., Yukl, 2010). Their interactions with followers, colleagues, or business partners happen through verbal and nonverbal behavior. In this chapter, we focus on leader nonverbal behavior (NVB). NVB plays an important role in interpersonal communication in general and accounts for a majority (about 65 to 90%) of the meaning conveyed in social interactions (e.g., Crane & Crane, 2010).

NVB refers to any behavior other than speech content. However, the distinction between verbal and nonverbal behavior is not always clear. For example, “emblems,” such as nonverbal gestures like the “okay” made with the thumb and forefinger, or the “thumbs up” gesture, have a distinct verbal meaning. But most nonverbal cues are subject to interpretation. A distinction between speech-related NVB and speech-unrelated NVB can be helpful (Knapp & Hall, 2010). Speech-related NVB encompasses, for instance, tone of voice, speech modulation, and speech duration. Examples of speech-unrelated NVB include eye gaze, facial expressions, body movements, posture, touch, smell, mode of dress, and walking style (Knapp & Hall, 2010). Whether verbal or nonverbal behavior matters more as a source of information depends on the situation. In an equivocal situation, NVB is often referred to as a source of information. The more a situation is equivocal, the more important NVB is. People often turn to NVB for information when the NVB contradicts the verbal communication or when individuals doubt the honesty of a verbal communication (e.g., Mehrabian, 1972).

NVB is important for successful social interactions. Its functions include revealing personality characteristics, signaling interpersonal orientations (dominance, friendliness), or expressing emotions (Knapp & Hall, 2010). When strangers meet for the first time, the impression they form about each other is mostly based on verbal and nonverbal cues (e.g., Ambady, Hallahan, & Rosenthal, 1995; Costanzo & Archer, 1989; Hyde, 2005). Regardless of whether the formed impressions are correct or not, they affect what one thinks about the social interaction partners and how one behaves toward them. In sum, interaction partners express their states and traits – not only but also – through NVB, consciously or unconsciously, and they use NVB to form impressions about others (Mehrabian & Wiener, 1967). This process can be illustrated with the Brunswikian lens model (Brunswik, 1956) (Figure 1). Two perspectives are present in the model. On the one hand, the model depicts the perceiver who observes the target's NVB and interprets it. The perceiver forms an impression about the target, for example, regarding the target's personality, based on the target's NVB. On the other hand, the model depicts the target and how he or she expresses him or herself in NVB. The Brunswikian lens model (Brunswik, 1956) has been used extensively to explain accuracy in social perception in different situations, including the leadership context. To illustrate, in a business meeting, on the one hand a new employee typically observes the NVB of the individuals present in the meeting, and infers who might be the leader through their NVB. This refers to the relationship between the perception of leadership and the observed NVB. On the other hand, the actual leader might speak more and approach more closely than the followers. This describes the relation between an individual's actual leadership and his or her NVB. If the perception of leadership and the actual leadership correspond with each other, this is accuracy. Accuracy as we described it

here is one aspect of a person's nonverbal communication abilities (Riggio, 2006).

Nonverbal communication abilities are understood as individual differences in people's skills to convey nonverbal messages to others, to read others' NVB, and to regulate and control their nonverbal displays (Riggio, 2006). They are part of the domain of interpersonal skills, which are the skills used by a person to properly interact with others (Riggio, Riggio, Salinas, & Cole, 2003).

\*\*\*Figure 1\*\*\*

Nonverbal communication abilities and NVB play an important role in leadership (Stein, 1975). Leadership is the process of influencing or controlling the behavior of others in order to reach a shared goal (Northouse, 2007; Stogdill, 1950). It has even been suggested that in the leadership context, nonverbal communication is more important than verbal communication. When the leader's verbal and nonverbal cues are in contradiction, the followers are more likely to trust the leader's nonverbal cues (Remland, 1981).

Individuals in leadership positions express their power and authority not only verbally but also nonverbally to get followers' attention and exert influence over them, for example, by being nonverbally persuasive (using greater facial expressiveness and greater fluency and pitch variety; Burgoon, Birk, & Pfau, 1990). A number of studies have documented the effects of leader NVB on leadership effectiveness (i.e., the evaluations of leader's competence, supportiveness, or success and the leader effects on followers satisfaction, motivation, and performance; Kaiser, Hogan, & Craig, 2008). For example, leaders establish a high level of mutual trust, cohesion, and sensitivity to the follower's needs by

demonstrating abilities to communicate nonverbally (Yukl, 2010). According to Riggio and colleagues, leaders who are able to correctly read and interpret nonverbal cues and act upon this understanding are more likely to exhibit behaviors that meet the needs of their followers (Reichard & Riggio, 2008; Riggio, 1986, 2006; Riggio & Carney, 2003), ultimately resulting in more positive perceptions of the leader's effectiveness (Riggio et al., 2003). Uhl-Bien (2004) suggests that the leader's nonverbal interpersonal skills are part of the key features needed to build effective leader-follower relationships. Thus NVB is a crucial means through which interpersonal skills lead to effective leadership.

In this chapter, we present an integrative review regarding the role of NVB in leadership. We organize the chapter around the following central questions: Based on which NVB do individuals perceive or infer leadership in emergent hierarchies? Based on which leader NVB do followers perceive effective leadership in actual hierarchies? Which NVB do leaders exhibit? How does leader NVB impact leadership effectiveness? Consequently, the goals of this chapter are (1) to provide an overview of the empirical findings pertaining to NVB in a leadership context; (2) to show how individual differences affect the relation between NVB and leadership; (3) to discuss implications of the reported findings for leaders; and (4) to draw conclusions and make suggestions on how to advance research in this field.

### **Nonverbal Behavior and the Perception of Leadership**

Nonverbal behavior plays an important part in the perception of leadership. Research on NVB and perceived leadership has focused on two distinct aspects: the role of NVB for *emergent leadership*, and the *perception of leadership* based on NVB. In this section, both aspects are presented and discussed.

### **NVB and Emergent Leadership**

An emergent leader is defined as the person who is not assigned a leadership position but arises as a leader within a group (Guastello, 2002; Stein & Heller, 1979). The emergent leader is typically the one who has the most influence in the group (Stein & Heller, 1979). An individual emerges as a leader based on other individuals' perceptions of him or her (e.g., Gray & Densten, 2007; Schyns, Felfe, & Blank, 2007). This mechanism is explained by the Expectation States Theory (EST; Berger, Conner, & Fisek, 1974; Berger, Fisek, Norman, & Zelditch, 1977; Ridgeway & Berger, 1986). According to EST, group members form performance expectations about each other. A performance expectation is a "generalized anticipation of one's own or another's capacity to make useful contributions to the task" (Ridgeway & Berger, 1986, p. 604). To the extent that all group members share these expectations, they become self-fulfilling prophecies. Expectations are affected, especially in relatively homogenous peer groups, by the NVB exhibited by the group members (Ridgeway & Berger, 1986). To illustrate, an individual who talks a lot in a group discussion might be perceived as an expert on the discussion topic, so the performance expectations for this individual are high. As a consequence, this individual is provided with more opportunities to contribute, thus gaining more influence in the group and emerging as the group's leader.

The typical research design to assess emergent leadership is to videotape group interactions, to code the NVB of each group member, and then to compare it with the group members' ratings of each other in terms of leadership (e.g., Baird, 1977; Riggio et al., 2003). Some studies have, however, used external (non-group members) for assessing the leadership of each group member. To illustrate, in some studies (Moore & Porter, 1988;

Schmidt Mast, Hall, Murphy, & Colvin, 2003; Stang, 1973), external observers watched different targets and then rated their leadership or dominance (i.e., any behavior aiming at gaining influence over others; Schmid Mast, 2010). The observations yield information about which of the targets' NVB is used by observers to infer leadership, thus emergent leadership. There are a number of NVB that people use to infer leadership. For example, gazing more, especially at the end of a statement (Kalma & van Rooij, 1982) in order to invite others to speak up, is a behavior that emergent leaders exhibit. Also, body movements such as more or less arm and shoulder movements contribute to perceptions of emergent leadership (Baird, 1977). The choice of seating place can also affect emergence of a leader (e.g., Heckel, 1973; Porter & Geis, 1981; Ward, 1968). It seems to be normal in developed countries at least, that leaders are expected to sit at the head of the table. Speaking time has also been shown to relate to emergent leadership as demonstrated in a meta-analysis by Schmid Mast (2002). Visual dominance, defined as the ratio of the percentage of looking while speaking divided by the percentage of looking while listening (Exline, Ellyson, & Long, 1975) also shows a positive link to emergent leadership (Dovidio & Ellyson, 1982).

The most comprehensive meta-analysis on the link between NVB and emergent leadership or perceived dominance stems from Hall, Coast, and Smith LeBeau (2005)<sup>1</sup>. Results suggest that many different cues are assumed to be markers of emergent leadership. Individuals are perceived as emergent leaders when they show more gazing, more nodding, and lowered eyebrows. They are perceived as emergent leaders when they demonstrate less self-touching but more touching others. They are perceived as emergent leaders when they have a more variable tone of voice, a faster speech rate, and a lower voice pitch as well as

when they show more vocal relaxation. Additionally, they are perceived as emergent leaders when they show more erect or tense postures, have more hand and arm gestures, more body or leg shifts, as well as more body openness. Also, they are perceived as emergent leaders when they interrupt others more often.

### **NVB and Perceptions of Leadership**

The perception of leadership by group members is also important in established hierarchies. The power leaders have depends on how they are perceived by followers (Hollander & Julian, 1969; Maurer & Lord, 1991; Pfeffer, 1977).

The perception of leadership in an established hierarchy can be understood by using implicit leadership theory (ILT; e.g., Lord, de Vader, & Alliger, 1986; Lord, Foti, & Phillips, 1982). This theory holds that individuals develop a set of beliefs about the characteristics and behaviors of effective and ineffective leaders (e.g., strength, charisma, sensitivity, tyranny) based on previous experiences (Schyns & Schilling, 2010). These beliefs are outside of conscious awareness – they are implicit. Thus, followers use their beliefs to explain and evaluate their leader's behaviors. Research suggests that the degree of matching that occurs between followers' beliefs and their leaders' behavior partially determines whether followers categorize their leaders as effective or ineffective leaders (Nye, 2002; Nye & Forsyth, 1991; Schyns & Schilling, 2010).

NVB plays a role in leadership perception. For example, Savvas and Schyns (2012) used ILT and pictures of facial expression to investigate how leadership was perceived. Participants reported their beliefs about the characteristics and behaviors of leaders. Then each participant examined a photo of a man in which the facial expression differed (neutral vs. raising/lowering and pulling together the eyebrows ). Raising and pulling together the

eyebrows typically expresses sadness or fear, whereas lowering and pulling together the eyebrows typically expresses anger (Ekman, Friesen, & Hager, 2002). The participants then were asked to evaluate the man in the picture with respect to leadership perception using the same questionnaire in which they reported their beliefs about the characteristics and behaviors of leaders. Results showed that when the participants' beliefs matched how they perceived the man based on his facial expression, the depicted man was evaluated to be more leader-like.

In sum, the implicit theories about leader characteristics that followers harbor influence how a leader is perceived. For all of these judgments, perceptions and evaluations of leadership are based on the leader's NVB. In order to complete this overview, it is important not only to understand how leadership is perceived but also how it is expressed through NVB.

### **Nonverbal Behavior and the Expression of Leadership**

A leader's role is to provide information, to instruct, direct, coordinate, and to give feedback (Mintzberg, 1973). Obviously, encoding or sending of nonverbal messages to followers, co-workers, or business partners is part of the leader role. The leader's NVB differs according to the leadership style adopted by the leader (constructive vs. destructive). In this section, we review studies in which NVB of actual leaders was studied in order to identify the NVB relevant to constructive and destructive leadership theories.

One of the most effective or constructive leadership styles is the charismatic or transformational leadership style<sup>2</sup> (Bass & Bass, 2008). It results in increased follower satisfaction and more organizational effectiveness (Lowe, Kroeck, & Sivasubramaniam, 1996). This style typically includes NVB such as animated facial expressions, faster rate of

speech, and erect posture or expansive body movements (Friedman, Prince, Riggio, & DiMatteo, 1980; Friedman & Riggio, 1981). Charismatic leaders use these nonverbal cues “to move, inspire, or captivate others” (Friedman et al., p. 133), to express a strong and confident presence, and to stimulate desired responses from followers (Gardner & Avolio, 1998). Even in an experimental setting it has been shown that the expression of certain NVB makes people judge somebody as charismatic (e.g., Awamleh, 1997; Awamleh & Gardner, 1999; Howell & Frost, 1989; Shea & Howell, 1999). For example, Awamleh and his colleague (Awamleh, 1997; Awamleh & Gardner, 1999) presented videotaped charismatic speeches to participants. The actor was trained to use animated facial expressions, dynamic hand and body gestures, to show vocal fluency, and to maintain eye contact. Results demonstrated that leaders were perceived as charismatic when they exhibited the above-mentioned NVB more so than when they did not. In a laboratory experiment, Shea and Howell (1999) trained actors to be charismatic or non-charismatic leaders. Charismatic leaders were trained to maintain direct eye contact, to have an animated facial expression, to use a captivating voice tone, to lean forward toward the participants, and to alternate between pacing and sitting on the edge of the desk. Contrastingly, non-charismatic leaders were trained to maintain sporadic eye contact, a neutral tone of voice, and a neutral facial expression. The study showed that charismatic leaders interacting with the participants were perceived as charismatic when they exhibited the corresponding NVB. Consistent with the experimental studies, Groves (2006) examined actual organizational leaders and found that leader nonverbal expressivity was positively related to follower ratings of leader charisma.

In contrast, one of the less effective leadership styles is labeled “destructive leadership” (Schyns & Schilling, 2012). Destructive leaders intentionally or unintentionally affect the activities and relationships within the team or the organization (e.g., attempting to reach higher performance or to bully a follower into leaving) (Schyns & Schilling, 2012). It results in undermining the follower’s satisfaction and the organization’s effectiveness (Einarsen, Aasland, & Skogstad, 2007). Many concepts have been used to describe destructive leadership, such as “toxic leadership” (Lipman-Blumen, 2005) or “abusive supervision” (Tepper, 2000). Contrary to charismatic leadership research, NVB related to this style has almost never been investigated. In his definition of abusive supervision, Tepper (2000) included the display of NVB excluding physical contact, however, he did not mention specific NVB related to destructive leadership.

Although to date no empirical research has identified the specific NVB relevant to the expressions of destructive leadership, it is of great importance to expand this research area. For instance, researchers might want to clarify which NVB refers to destructive leadership and then how destructive NVB impacts leadership effectiveness. At this point a table of the results regarding the role of NVB in leadership is provided (Table 1).

\*\*\*Table 1\*\*\*

### **Nonverbal Behavior and Effective Leadership**

Obviously, the expression of leadership through NVB can be beneficial for leaders in order to be effective. In this section we review some of the research that demonstrates the role of NVB in leadership effectiveness, integrating both aspects of leadership

effectiveness: (1) the evaluations of leaders' competence, supportiveness, or success, and, (2) followers' outcomes such as satisfaction, motivation, or follower/team performance (Kaiser et al., 2008).

With respect to NVB and leader evaluation, research shows that leader NVB can convey supportiveness (Remland, Jacobson, & Jones, 1983) and professional success (DePaulo & Friedman, 1998; Shamir, House, & Arthur, 1993). In an experimental study (Remland et al., 1983), undergraduate students were asked to read a scenario in which different aspects of leader NVB were described, and then the students were asked to evaluate the leaders' supportiveness. Results showed that participants perceived leaders as supportive when they touched their followers, were oriented toward their followers, spoke with a soft voice, smiled with compassion, gazed, and nodded. In contrast, leaders who kept their distance, were leaning back, spoke in a firm voice, interrupted, did not look or smile, and turned away from their followers were perceived as non-supportive. Moreover, DePaulo and Friedman's review (1998) demonstrated that the display of more eye contact, more gesturing, more smiling, animated facial expressions, and more pitch variation were related to professional success. Research on charismatic leadership shows that more expressive NVB is linked to more leader success (Bass, 1990; Riggio, 1998).

Leader NVB not only impacts the evaluations of leaders, but also follower outcomes. In a work context, according to the Pygmalion theory (Eden, 1990), leaders might adapt their behavior toward their followers in accordance with the leaders' expectations about followers' performance. This behavior, in turn, influences the followers' self-efficacy (Bandura, 1977) and performance (Sutton & Woodman, 1989). This influence can be beneficial as well as detrimental. For instance, if the leader expects increased

performance from his or her followers, then the followers indeed show that increase; and if the leader expects decreased performance from them, then the followers show that decrease. Research demonstrated that leaders' NVB is different when interacting with followers of whom they have higher performance expectations than those of whom they have lower performance expectations. However, the difference is undetectable by followers (King, 1971). King (1971) demonstrated the Pygmalion effect in a training program for disadvantaged people using an experimental approach. He randomly selected different individuals as high aptitude personnel (HAPs), leading the leaders to expect higher performance from these followers. Results showed that the HAPs showed significantly higher performance than the other followers (control group). Post-experimental interviews were conducted with the followers in order to better understand the effect. Two pictures of their leader were shown to the followers: they were identical except that one was modified to make the pupil-size of the leader's eyes larger than the other. Enlarged pupil size is indicative of favorable attitudes toward others (Janisse, 1973). Both HAPs and control group were asked to choose the picture that was closest to the way in which their leader looked at them. The HAPs picked pictures with enlarged pupils significantly more often than the control group. However, they did not notice the pupil size difference between pictures. Thus, the way a leader looks at and to his or her followers subconsciously influences the followers' performance.

Also, leaders' NVB can affect followers' satisfaction, motivation, and performance (Tjosvold, 1984). In a laboratory study (Tjosvold, 1984), participants interacted with a leader in order to complete a task. The leader was either directive or non-directive and behaved in a nonverbally cold or warm manner. Cold NVB consisted of a tough voice,

smiling avoidance, stiff facial expression, greater interpersonal distance, and eye contact avoidance, whereas warm NVB included soft and audible tone of voice, smiling, friendly facial expression, closer interpersonal distance, and direct eye contact. Results showed that participants who interacted with a warm leader were satisfied with the leader, perceived the leader as helpful, wanted to work again with the leader, and wanted to meet the leader socially. Moreover, leaders' warm NVB coupled with directive instructions increased followers' productivity, whereas leaders' warm NVB coupled with non-directive instructions decreased followers' productivity. In the same vein, Gaddis, Connelly, and Mumford (2004) demonstrated that after a failure feedback situation in which leaders delivered the feedback in a positive and supportive way (i.e., calm voice and smile), teams performed better on the task than did teams whose leaders displayed negative affect (i.e., tense voice, negative tone of voice). In a recent experimental study, Talley (2012) demonstrated that attraction or repulsion toward a leader can be determined by the leader's hand gestures displayed during a speech. Participants watched a video of a leader using different hand gestures: positive (humility, community, and stepling hands), defensive (hands behind back or in pocket, or crossed arms), and no hand gestures. Results showed that participants perceived positive and defensive hand gestures as more immediate than no hand gestures, which were perceived as distancing. Moreover, leaders with positive hand gestures were perceived as more attractive than leaders with defensive and no hand gestures.

The way leaders use NVB to influence and guide their followers can be explained by the emotional contagion process (see Hatfield, Cacioppo, & Rapson, 1994). This process refers to the follower's tendency to automatically imitate and synchronize with the facial

expression, postures, tone of voice, or body movements of the leader, mostly unconsciously. This results in emotional convergence between the leader and the follower, whereby the follower actually feels the mimicked expressions. Empirical evidence supports this. Sullivan and Masters (1988) showed videotaped excerpts of political candidates to participants. The candidates displayed either happy/reassuring (e.g., raised eyebrows, smiles) or neutral facial expressions. Results indicated that changes in participants' attitudes of political support (i.e., measure of warmth toward the candidate) were more likely to be influenced by the emotional responses to happy displays than by party identification or assessment of leadership skills. More recently, Cherulnik and colleagues (Cherulnik, Donley, Wiewel, & Miller, 2001) found that followers imitated the nonverbal cues (e.g., smiles) emanated by charismatic leaders during their talks, whereas followers did not imitate the cues of non-charismatic leaders.

We can conclude that leader NVB affects leadership effectiveness most likely through an interactive process between leader expressive NVB and followers' perception of and imitation thereof. Although there is no simple and easy recipe for leadership effectiveness (Eden et al., 2000; White & Locke, 2000), we suggest in the next section that leaders be trained in nonverbal communication in order to maximize their impact on followers.

### **Importance of Leader NVB for Leadership Outcomes**

As mentioned in the introduction, effective leaders need specific interpersonal skills, and NVB is an important part of the interpersonal skills that lead to effective leadership. In this section, we provide some tips on how leaders can be trained to improve their nonverbal encoding and decoding skills in order to be effective.

There is evidence that leaders can improve their nonverbal expression of leadership through training (e.g., Frese, Beimeel, & Schoenborn, 2003; Taylor, 2002; Towler, 2003; Vrij & Mann, 2005). Training of charismatic nonverbal communication (e.g., facial expressions, body gestures, eye contact, and animated voice tone) and of visionary or inspirational verbal content communication (e.g., articulating a vision, using metaphors) both showed an increase in leadership effectiveness. For example, in a study by Towler (2003), participants who received charismatic leadership training exhibited more charismatic behaviors and influenced followers to perform better on a task. In the same vein, such training successfully developed a range of NVB — using gestures, variation of speech, increased speech speed and loudness — that lead to charismatic leadership behavior (Frese et al., 2003). Using a similar approach to the two aforementioned studies, Antonakis, Fenley, and Liechti (2011) also demonstrated in two studies that charismatic leadership training influenced evaluations of leader charisma positively. The results from these studies suggest that charismatic NVB is an acquirable skill.

The skill to accurately decode subtle nonverbal cues is also important for leaders to possess, not only to understand the messages sent by the followers, but also for building rapport and for being responsive to the needs of followers. There is evidence showing that leaders might be more skilled in correctly assessing others' states and traits based on observing others' NVB than are followers (Schmid Mast, Jonas, & Hall, 2009). Moreover, accurate assessment of others by leaders is related to positive leadership outcomes, such as increases in follower satisfaction (Byron, 2007; Schmid Mast, Jonas, Klöckner Cronauer, & Darioly, 2012). Although not much is known about the possibility of training leaders' nonverbal decoding skills, Costanzo's (1992) findings suggest that leaders' NVB decoding

skills can be improved. The author conducted a study in which participants received either an informational lecture on verbal and nonverbal cues, or training in detecting relevant cues in filmed interactions. In the latter condition, participants watched videotaped excerpts of social interactions and were asked to judge, for instance, the type of relationship among the social interaction partners. Then, the correct answer and the specific nonverbal cues indicative of the correct answer for each scene were pointed out to the participants. Results indicated that only participants who received the detection training significantly improved their skills to correctly interpret NVB.

It seems that it is possible to train leaders and NVB training for leaders is beneficial for leadership effectiveness. Riggio and colleagues (Riggio, 1989; Riggio & Carney, 2003; Riggio & Reichard, 2008; Riggio et al., 2003) highlight that feedback is important in order to improve skills in nonverbal decoding and encoding. Leaders can become more aware of their own NVB as well as that of their followers.

### **Leadership, Nonverbal Behavior, and Individual Differences**

Considering leadership as an interactive dynamic between a leader and a follower, it is relevant to take into account the individual characteristics that might have an impact on this dynamic. We will discuss gender, cultural background, and other individual differences that can affect the leadership-NVB link.

#### **Gender and Leadership**

Research shows that the gender of the leader plays a significant role in the leadership context. The perception of leadership through NVB might vary according to the gender of the leader. On the one hand, leadership is inferred from different NVB for female and male leaders. Perceivers rely more on downward head tilt and lowered eyebrows when

assessing the leadership position of women than when assessing leadership in men (Schmid Mast & Hall, 2004b). On the other hand, the same behavior exhibited by a female or male leader results in different perceptions. Women using more eye contact, gesturing, smiling, animated facial expressions, and variations in pitch are seen as more charismatic than men showing the same NVB (Bass & Avolio, 1989).

On the other hand, women and men exhibit different NVB in leadership positions. In a leadership position, men use more expansive body positions, speak more, use a louder voice, and interrupt others more frequently than do women (Hall, 2006). However, female leaders have more expressive faces and maintain closer interpersonal distance than do male leaders (Hall, 2006).

Finally, the same NVB exhibited by female leaders and by male leaders affects followers differently. Assertive and directive behaviors (e.g., speaking first or responding quickly in conversation) are perceived more favorably in male than in female leaders (Eagly & Karau, 2002). This suggests that gender-congruent NVB affects the leader perception positively and gender-incongruent NVB hurts the leader.

Although we focus on leader gender, follower gender can also be a moderator of how male or female leaders behave nonverbally and how they are perceived based on their exhibited NVB. Research in leadership emergence suggests that the interaction between the perceiver's gender and the target's gender influences how people infer leadership. For example, the cue of sitting at the end of the table held for leadership emergence (e.g., Heckel, 1973; Porter & Geis, 1981; Ward, 1968), but when individuals have the choice between a man and woman seated at each end of the table, they tended to choose a person of their own sex as leader (Jackson, Engstrom, & Emmers-Sommer, 2007). In regard to

leadership position, when female leaders exhibit upright posture, high speech rate, moderate eye contact while speaking, few vocal hesitations, and calm restrained hand gestures, they influence male followers less than a male leader exhibiting similar NVB (Carli, LaFleur, & Loeber, 1995). Female leaders who exhibit the above-mentioned NVB were also perceived as less likable by male followers in comparison to men exhibiting similar NVB. However, female leaders who exhibited the above-mentioned NVB did not have a differential effect on female followers. For women followers, the woman leader's nonverbal cues did not affect how much followers were influenced or their liking for the leader (Carli et al., 1995).

To conclude, the relationship between leadership, NVB, and gender is complex and multifaceted. Depending on the interaction between gender and leadership position, men or women express different kinds of NVB, which affect the way others perceive the NVB expressed by them.

### **Cultural Background and Leadership**

The relationship between NVB and the cultural background of the followers or leaders is also relevant to leadership. Cultural background affects how leadership is perceived and expressed. NVB takes on shared meaning in a specific cultural setting (Knapp & Hall, 2010). For example, a Japanese leader may interact at a more pronounced interpersonal distance compared to an American leader, and so, cultural differences in NVB between leaders and followers might result in misunderstandings. Some authors (Matsumoto, 1990, 1991) suggest that persons from individualistic cultures (e.g., the United States) express feelings more openly and tend to be more nonverbally demonstrative than individuals of collectivistic cultures (e.g., China). Moreover, people of individualistic

cultures tend to be more accurate in decoding subtle nonverbal cues (e.g., Beck, Bröske, Koster, Menzel, & Mohr, 2003; Hofstede, 2001; Matsumoto et al., 2002) and there is a cultural in-group advantage at correctly assessing others' emotions (Elfenbein, Beaupré, Lévesque, & Hess, 2007), despite emotion recognition being universal (Ekman, 1994). The Global Leadership and Organizational Behavior Effectiveness study (GLOBE; House, Hanges, Javidan, Dorfman, & Gupta, 2004), a project that included 62 cultures, demonstrated that there are both universal characteristics and significant cultural differences concerning leadership. While charismatic leadership is preferred in many cultures, the overall behaviors associated with leadership and the expected behaviors from leaders may be dissimilar. For example, in her study, Gaal (2007) examined the relationship between charismatic/transformational leadership, NVB, and culture. Two cultures were observed: The United States (low on power distance) and Hungary (high on power distance). A male actor was asked to recite a charismatic speech in three different ways: reserved, orchestrated, and aggressive. In the *reserved* scenario, the actor had a monotone voice, did not look at the camera or move his arms. In the *orchestrated* scenario, the actor was dynamic, with an animated voice, a natural eye contact with the camera, and with his palms open. In the *aggressive* scenario, the actor yelled and showed intense emotions during his speech, maintained direct eye contact with the camera and used his arms or hands to point or knock on the podium. Participants randomly watched one of the three scenarios. The NVB displayed by the leader was perceived differently by observers in the United States than by observers in Hungary. For both countries, there was a positive relationship between the orchestrated NVB and charismatic leadership characteristics (i.e., vision, inspiration, and trustworthiness) and a negative relationship between the reserved

NVB and charismatic leadership characteristics. However, the aggressive scenario was perceived as more detrimental for the perception of charismatic leadership characteristics in the United States than in Hungary compared to the two other scenarios. In the same vein, Matsumoto (1990) studied displayed emotions in Americans and Japanese people. Participants saw faces portraying emotions and assessed the suitability of each in different social situations such as in interactions between a leader and a follower. Results showed that on the one hand, the Japanese found it suitable to express negative emotions (e.g., anger) toward followers because the expression of such behavior serves to maintain the existing, culturally grounded power distance. On the other hand, the Americans discouraged leader displays of negative emotions to followers because these emphasize status differences, which is contradictory to the American culture of equality.

Although the impact of cultural difference in NVB expressed by leaders has not been covered in great detail, the research demonstrates that leaders may be perceived differently in one culture than another and what is “acceptable” leader NVB may be culturally dependent.

### **Other Characteristics and Leadership**

There is an almost endless list of other characteristics that do or potentially could affect the NVB-leadership relationship. For example, expressions and perceptions of leadership may differ in important ways depending on the individual’s social motives (e.g., goals, desires) or on his or her emotional state (e.g., happiness, anger). A leader who argues with a follower about respecting a deadline might behave differently than a leader who wants to fire an ineffective follower. Moreover, smiling in a situation of crisis may be regarded as sarcastic rather than supportive. This idea is supported by Bucy (2000), who

showed that leaders were assessed more favorably when the NVB they demonstrated was considered compatible with the message they conveyed.

The nature of the relationship the individual has with others (e.g., new or well-known followers, colleagues, leader, or clients) might also affect the NVB-leadership relationship. Cashdan (1998) demonstrated that, in discussions, female and male leaders showed differences in NVB depending on whether they were with acquaintances or strangers. Female and male leaders spoke more in discussions with strangers than in discussions with acquaintances. Female leaders had more open body postures; in particular, their legs were more open in discussions with strangers than in discussions with acquaintances. Male leaders smiled less in discussions with strangers than in discussions with acquaintances.

Personality is certainly another important factor. For example, extraversion and dominance affect emergent leadership. Extraversion refers to a predisposition to be outgoing, active, or assertive (Judge & Bono, 2000) and the personality trait of dominance refers to a predisposition to try to influence others (Ellyson & Dovidio, 1985). There is evidence indicating that personality influences sitting positions. Extraverts tend to choose seating positions that put them in the focus of the others (Cook, 1970) which then, as we have discussed earlier, increases the chances for those people to emerge as leaders. In the same vein, Hare and Bales (1963) noted that people at the head, foot, or center of the table were likely to have dominant personalities. Kalma, Visser, and Peeters (1993) demonstrated that in an emergent leadership situation, individuals who scored higher on sociable dominance (i.e., high self-esteem, positive attitudes toward others, a central position in groups, a strong need to influence others, and an independent and active attitude) or

aggressive dominance (negative attitudes toward others and a strong motivation to realize one's goals, even at the detriment of personal relationships) emerge as leaders with sociably dominant individuals being chosen more frequently as group leaders than aggressively dominant individuals. Moreover, sociably dominant individuals behaved differently from aggressive dominant individuals in that they looked at others more while speaking, had more eye contact, and used more gestures. Aggressively dominant individuals looked at others less while listening and interrupted more.

Some of the discussed characteristics can interact with each other and affect the NVB-leadership relationship. Not much research has looked at such complex patterns. One example is a study showing that leader gender interacted with dominance and leadership position in predicting NVB. In non-leadership positions, women who were high in dominance smiled less than women who were low in dominance, while no such effect emerged for men (Schmid Mast & Hall, 2004a). There is clearly more research needed to address such complex interplays.

### **Conclusion and Outlook**

The aim of this chapter is to better understand the role of NVB in leadership by showing that leader NVB is an important means for framing the relationship between leaders and followers, and for effective leadership. Differences in NVB among group members are part of the basis on which leaders emerge in groups. Moreover, followers use different leader NVB to judge and evaluate their leaders. The NVB that leaders exhibit is linked to their leadership styles, and leader NVB impacts (most of the time unconsciously) leadership effectiveness. Knowing which leader NVB is related to better or worse leadership outcomes is beneficial because it allows for the training of leaders. Leader

interpersonal skill training can make leaders aware of their own NVB and provide them the tools to adapt to others' NVB. This awareness and adaptability is necessary in order to be effective.

Organizations that want to improve should be interested in NVB training for their leaders because it potentially increases leadership effectiveness. Moreover, knowing that NVB plays a primary role when dissonance occurs between verbal and nonverbal behavior may help in understanding the demands of leadership in organizations. Leaders are often required to show different emotions than those they actually feel. For example, during times of crisis, leaders might more easily find the right words rather than the right NVB to support their followers. However, they need to display NVB indicative of confidence and optimism even if they are as worried and anxious as their followers. Thus it is important that leaders be trained in the context of “emotional labor” (i.e., leaders are expected to display certain emotions as part of their leadership position; Humphrey, Pollack, & Hawver, 2008).

Research in nonverbal communication and leadership is still scarce. It might be relevant to know which NVB are more or less related to interpersonal skills in order to achieve a better focus in leader NVB training. For example, is touching more related to emotional or social skills according to Riggio's Social Skills Inventory (Riggio, this volume; Riggio & Carney, 2003)? Moreover, much of the research focuses on the NVB of effective leaders, but we need to identify the NVB related to destructive and “toxic” leaders in order to know their effects and avoid them.

Regarding the methods used, research has tested a range of diverse NVB in relation to constructive leadership, but these typically remain on a correlational and descriptive

level. We need to better understand the effects of the interactions and combinations of different NVB (e.g., touching and smiling) in order to know their effects and see whether they are perceived as effective (i.e., similar effects as incongruent verbal and nonverbal behavior). Additionally, analyzing mediators of the expression or perception of leadership (e.g., perceived competence or perceived self-confidence) are needed to better understand why NVB is used to convey or to infer leadership. Finally, methodological innovations in the study of NVB and leadership are needed. For example, computer-mediated automatic coding of NVB related to emergent leadership is being developed and might facilitate the work of researchers (Sanchez-Cortes, Aran, Schmid Mast, & Gatica-Perez, 2011).

Another important area that deserves the attention of researchers is how leaders and followers cope with the absence of some NVB in virtual teams. These specific teams use computer-mediated communication (CMC). CMC includes a variety of electronic message systems that can be supplemented by audio and video links. Examples of CMC are email, chat, or video-conference. It is well-established that there is little or no NVB in most of CMC (e.g., Kiesler, Siegel, & McGuire, 1984; Walther, 1996), except for video-conference, but even in this situation NVB is limited to some extent. Because one of the functions of NVB is to reduce the ambiguity of a message, there is a high probability for misinterpretation in CMC (Sanderson, 1993). Interestingly, individuals create a number of strategies to compensate for the lack of NVB in CMC. Most notable is the use of “emoticons” – smiley-faced characters used to express emotions (Walther & D'Addario, 2001). Additionally, it has been suggested that individuals may become more precise in their use of words to more clearly communicate emotions in CMC (Newlands, Anderson, & Mullin, 2003). Research on emergent leadership in virtual teams demonstrated that

emergent leaders sent more and longer email messages than their team members did (Yoo & Alavi, 2004), suggesting that they act similarly to emergent leaders in face-to-face teams who speak more (Schmid Mast, 2002).

In conclusion, additional research is needed and leader NVB training is important to reach individual, leadership, and organizational effectiveness. Thus, the future for NVB research in the leadership context and for leader development seems encouraging. This integrative review on the role of NVB in leadership provides organizations with evidence that NVB greatly influences the attribution of leadership characteristics and may be trained in order to improve interpersonal skills.

## References

- Ambady, N., Hallahan, M., & Rosenthal, R. (1995). On judging and being judged accurately in zero-acquaintance situations. *Journal of Personality and Social Psychology, 69*(3), 518-529.
- Antonakis, J., Fenley, M., & Liechti, S. (2011). Can charisma be taught? Tests of two interventions. *Academy of Management Learning and Education, 10*(3), 374-396.
- Awamleh, R. A. (1997). *Charismatic leadership: The effects of vision content, vision delivery, organizational performance, and the romance of leadership on perceptions of charisma and effectiveness*. Dissertation, University of Mississippi, USA.
- Awamleh, R. A., & Gardner, W. L. (1999). Perceptions of leader charisma and effectiveness: The effects of vision content, delivery, and organizational performance. *The Leadership Quarterly, 10*(3), 345-373.
- Baird, J. E. (1977). Some non-verbal elements of leadership emergence. *Southern Speech Communication Journal, 42*(4), 352-361.
- Bandura, A. (1977). Self-efficacy: Toward a unifying theory of behavioral change. *Psychological Review, 84*, 191-215.
- Bass, B. M. (1985). *Leadership and performance beyond expectations*. New York: Free Press.
- Bass, B. M. (1990). *Bass and Stogdill's handbook of leadership: Theory, research, and managerial applications*. New York: Free Press.
- Bass, B. M., & Avolio, B. J. (1989). Potential biases in leadership measures: How prototypes, leniency, and general satisfaction relate to ratings and rankings of

- transformational and transactional leadership constructs. *Educational and Psychological Measurement*, 49(3), 509-527. doi: 10.1177/001316448904900302
- Bass, B. M., & Bass, R. B. (2008). *The Bass handbook of leadership: Theory, research, and managerial applications* (4th ed.). New York: The Free Press.
- Beck, J., Bröske, A., Koster, I., Menzel, A., & Mohr, G. (2003). *Die Bedeutung kultureller Orientierung und Persönlichkeit für die Dekodierungsfähigkeit im Rahmen interpersonaler Wahrnehmung [The importance of cultural orientation and personality for decoding abilities in the context of interpersonal perception]*. Unpublished Working Paper. Department of Work and Organizational Psychology. University of Leipzig.
- Berger, J., Conner, T. L., & Fisek, H. (1974). *Expectation States Theory: A theoretical research program*. New York: Elsevier.
- Berger, J., Fisek, M. H., Norman, R. Z., & Zelditch, M., Jr. (1977). *Status characteristics in social interaction: An expectation states approach*. New York: Elsevier.
- Brunswik, E. (1956). *Perception and the representative: Design of psychological experiments*. Berkeley, CA: University of California Press.
- Bucy, E. P. (2000). Emotional and evaluative consequences of inappropriate leader displays. *Communication Research*, 27, 194-229.
- Burgoon, J. K., Birk, T., & Pfau, M. (1990). Nonverbal behaviors, persuasion, and credibility. *Human Communication Research*, 17(1), 140-169. doi: 10.1111/j.1468-2958.1990.tb00229.x
- Byron, K. (2007). Male and female managers' ability to read emotions: Relationships with supervisor's performance ratings and subordinates' satisfaction ratings. *Journal of*

- Occupational and Organizational Psychology*, 80(4), 713-733. doi:  
10.1348/096317907x174349
- Carli, L. L., LaFleur, S. J., & Loeber, C. C. (1995). Nonverbal behavior, gender, and influence. *Journal of Personality & Social Psychology*, 68(6), 1030-1041.
- Cashdan, E. (1998). Smiles, speech, and body posture: How women and men display sociometric status and power. *Journal of Nonverbal Behavior*, 22(4), 209-228. doi:  
10.1023/a:1022967721884
- Cherulnik, P. D., Donley, K. A., Wiewel, T. S. R., & Miller, S. R. (2001). Charisma is contagious: The effect of leaders' charisma on observers' affect. *Journal of Applied Social Psychology*, 31(10), 2149-2159. doi: 10.1111/j.1559-1816.2001.tb00167.x
- Cook, M. (1970). Experiments on orientation and proxemics. *Human Relations*, 23(1), 61-76. doi: 10.1177/001872677002300107
- Costanzo, M. (1992). Training students to decode verbal and nonverbal cues: Effects on confidence and performance. *Journal of Educational Psychology*, 84(3), 308-313.
- Costanzo, M., & Archer, D. (1989). Interpreting the expressive behavior of others: The Interpersonal Perception Task. *Journal of Nonverbal Behavior*, 13(4), 225-245.
- Crane, J., & Crane, F. G. (2010). Optimal nonverbal communications strategies physicians should engage in to promote positive clinical outcomes. *Health Marketing Quarterly*, 27(3), 262-274. doi: 10.1080/07359683.2010.495300
- DePaulo, B. M., & Friedman, H. S. (1998). Nonverbal communication. In D. Gilbert, S. Fiske & G. Lindzey (Eds.), *Handbook of social psychology* (4th ed., pp. 3-40). Boston, NY: McGraw Hill.

- Dovidio, J. F., & Ellyson, S. L. (1982). Decoding visual dominance: Attributions of power based on relative percentages of looking while speaking and looking while listening. *Social Psychology Quarterly*, *45*(2), 106-113.
- Eagly, A. H., & Karau, S. J. (2002). Role congruity theory of prejudice toward female leaders. *Psychological Review*, *109*(3), 573-598.
- Eden, D. (1990). *Pygmalion in management*. Lexington, MA: Lexington Books.
- Eden, D., Geller, D., Gewirtz, A., Gordon-Terner, R., Inbar, I., Liberman, M., . . . Shalit, M. (2000). Implanting Pygmalion leadership style through workshop training: Seven field experiments. *The Leadership Quarterly*, *11*(2), 171-210.
- Einarsen, S., Aasland, M. S., & Skogstad, A. (2007). Destructive leadership behaviour: A definition and conceptual model. *The Leadership Quarterly*, *18*, 207-216.
- Ekman, P. (1994). Strong evidence for universals in facial expressions: A reply to Russell's mistaken critique. *Psychological Bulletin*, *115*(2), 268-287.
- Ekman, P., Friesen, W. V., & Hager, J. C. (2002). *Facial action coding system: The manual*. USA: Research Nexus division of Network Information Research Corporation.
- Elfenbein, H. A., Beaupré, M., Lévesque, M., & Hess, U. (2007). Toward a dialect theory: Cultural differences in the expression and recognition of posed facial expressions. *Emotion*, *7*(1), 131-146.
- Ellyson, S. L., & Dovidio, J. F. (1985). Power, dominance, and nonverbal behavior: Basic concepts and issues. In S. L. Ellyson & J. F. Dovidio (Eds.), *Power, dominance, and nonverbal behavior* (pp. 1-27). New York: Springer.

- Exline, R. V., Ellyson, S. L., & Long, B. D. (1975). Visual behavior as an aspect of power role relationships. In P. Pliner, L. Krames & T. Alloway (Eds.), *Advances in the Study of Communication and Affect* (pp. 21-52). New York: Plenum.
- Frese, M., Beimeel, S., & Schoenborn, S. (2003). Action training for charismatic leadership: Two evaluations of studies of a commercial training module on inspirational communication of a vision. *Personnel Psychology*, 56(3), 671-698.
- Friedman, H. S., Prince, L. M., Riggio, R. E., & DiMatteo, M. R. (1980). Understanding and assessing nonverbal expressiveness: The Affective Communication Test. *Journal of Personality and Social Psychology*, 39(2), 333-351. doi: 10.1037/0022-3514.39.2.333
- Friedman, H. S., & Riggio, R. E. (1981). Effect of individual differences in nonverbal expressiveness on transmission of emotion. *Journal of Nonverbal Behavior*, 6(2), 96-104.
- Gaal, M. A. (2007). *Cross-cultural comparison of nonverbal communication, culture, and the attribution of charismatic leadership among Hungarian and American university students*. PhD, Walden University, ProQuest Dissertations and Theses. Retrieved from <http://search.proquest.com/docview/304768522?accountid=10141> (304768522)
- Gaddis, B., Connelly, S., & Mumford, M. D. (2004). Failure feedback as an affective event: Influences of leader affect on subordinate attitudes and performance. *The Leadership Quarterly*, 15(5), 663-686. doi: <http://dx.doi.org/10.1016/j.leaqua.2004.05.011>

- Gardner, W. L., & Avolio, B. J. (1998). The charismatic relationship: A dramaturgical perspective. *Academy of Management Review*, 23(1), 32-58.
- Gray, J. H., & Densten, I. L. (2007). How leaders woo followers in the romance of leadership. *Applied Psychology: An International Review*, 56(4), 558-581.
- Groves, K. S. (2006). Leader emotional expressivity, visionary leadership, and organizational change. *Leadership and Organization Development Journal*, 27(7), 566 - 583. doi: 10.1108/01437730610692425
- Guastello, S. J. (2002). *Managing Emergent Phenomena*. Mahwah, NJ: Lawrence Erlbaum.
- Hall, J. A. (2006). Nonverbal behavior, status, and gender: How do we understand their relations? *Psychology of Women Quarterly*, 30(4), 384-391. doi: 10.1111/j.1471-6402.2006.00313.x
- Hall, J. A., Coats, E. J., & Smith LeBeau, L. (2005). Nonverbal behavior and the vertical dimension of social relations: A meta-analysis. *Psychological Bulletin*, 131(6), 898-924. doi: 10.1037/0033-2909.131.6.898
- Hare, A. P., & Bales, R. F. (1963). Seating position and small group interaction. *Sociometry*, 26, 480-486.
- Hatfield, E., Cacioppo, J. T., & Rapson, R. L. (1994). *Emotional contagion*. Cambridge, UK: Cambridge University Press.
- Heckel, R. V. (1973). Leadership and voluntary seating choice. *Psychological Reports*, 32, 141-142.
- Hofstede, G. (Ed.). (2001). *Culture's consequences*. Thousands Oaks, CA: Sage.
- Hollander, E. P., & Julian, J. W. (1969). Contemporary trends in the analysis of leadership processes. *Psychological Bulletin*, 71(5), 387-397.

- House, R. J., Hanges, P. J., Javidan, M., Dorfman, P. W., & Gupta, V. (2004). *Culture, leadership, and organizations: The GLOBE study of 62 societies*. London, UK: Sage.
- Howell, J. M., & Frost, P. J. (1989). A laboratory study of charismatic leadership. *Organizational Behavior and Human Decision Processes*, 43(2), 243 - 269. doi: 10.1016/0749-5978(89)90052-6
- Humphrey, R., Pollack, J. M., & Hawver, T. H. (2008). Leading with emotional labor. *Journal of Managerial Psychology*, 23, 151-168.
- Hyde, J. S. (2005). The gender similarities hypothesis. *American Psychologist*, 60(6), 581-592. doi: 10.1037/0003-066X.60.6.581
- Jackson, D., Engstrom, E., & Emmers-Sommer, T. (2007). Think leader, think male and female: Sex vs. seating arrangement as leadership cues. *Sex Roles*, 57(9), 713-723. doi: 10.1007/s11199-007-9289-y
- Janisse, M. P. (1973). Pupil size and affect: A critical review of the literature since 1960. *Canadian Psychologist/Psychologie canadienne*, 14(4), 311-329. doi: 10.1037/h0082230
- Judge, T. A., & Bono, J. E. (2000). Five-factor model of personality and transformational leadership. *Journal of Applied Psychology*, 85(5), 751-765. doi: 10.1037/0021-9010.85.5.751
- Kaiser, R. B., Hogan, R., & Craig, S. B. (2008). Leadership and the fate of organizations. *American Psychologist*, 63(2), 96-110.
- Kalma, A. P., & van Rooij, J. (1982). Dominantie en interactieregulering: het kijkgedrag van invloedrijke personen [Dominance and regulation of interaction: Looking

- behaviour of influential persons]. *Nederlandse Tijdschrift voor de Psychologie en haar Grensgebieden*, 37, 431-443.
- Kalma, A. P., Visser, L., & Peeters, A. (1993). Sociable and aggressive dominance : Personality differences in leadership style ? *The Leadership Quarterly*, 4(1), 45-64. doi: 10.1016/1048-9843(93)90003-C
- Kiesler, S., Siegel, J., & McGuire, T. W. (1984). Social psychological aspects of computer-mediated communication. *American Psychologist*, 39(10), 1123-1134.
- King, A. S. (1971). Self-fulfilling prophecies in training the hard-core: Supervisor's expectations and the underprivileged worker's performance. *Social Science Quarterly*, 52, 369-378.
- Knapp, M. L., & Hall, J. A. (Eds.). (2010). *Nonverbal communication in human interaction* (7th ed.). Boston, MA: Wadsworth, Cengage Learning.
- Lipman-Blumen, J. (2005). *The allure of toxic leaders: Why we follow destructive bosses and corrupt politicians and how we can survive them*. New York: Oxford University Press.
- Lord, R. G., de Vader, C. L., & Alliger, G. M. (1986). A meta-analysis of the relation between personality traits and leadership perceptions: An application of validity generalization procedures. *Journal of Applied Psychology*, 71(3), 402-410. doi: 10.1037/0021-9010.71.3.402
- Lord, R. G., Foti, R. J., & Phillips, J. S. (1982). A theory of leadership categorization. In J. G. Hunt, U. Sekaran & C. A. Schriesheim (Eds.), *Leadership: Beyond establishment views*. Carbondale: Southern Illinois: University Press.

- Lowe, K. B., Kroeck, K. G., & Sivasubramaniam, N. (1996). Effectiveness correlates of transformational and transactional leadership: A meta analytic review. *The Leadership Quarterly*, 7(3), 385.
- Matsumoto, D. (1990). Cultural similarities and differences in display rules. *Motivation and Emotion*, 14, 195-214.
- Matsumoto, D. (1991). Cultural influences on facial expression of emotion. *Southern Communication Journal*, 56, 128-137.
- Matsumoto, D., Consolacion, T., Yamada, H., Suzuki, R., Franklin, B., Paul, S., . . . Uchida, H. (2002). American-Japanese cultural differences in judgement of emotional expressions of different intensities. *Cognition and Emotion*, 16(6), 721-747.
- Maurer, T. J., & Lord, R. G. (1991). An exploration of cognitive demands in group interaction as a moderator of information processing variables in perceptions of leadership. *Journal of Applied Social Psychology*, 21(10), 821-839. doi: 10.1111/j.1559-1816.1991.tb00445.x
- Mehrabian, A. (1972). *Nonverbal communication*. Chicago, IL: Aldine-Atherton.
- Mehrabian, A., & Wiener, M. (1967). Decoding of inconsistent communications. *Journal of Personality and Social Psychology*, 6(1), 109-114. doi: 10.1037/h0024532
- Mintzberg, H. (1973). *The nature of managerial work*. New York: Harper & Row.
- Moore, H. A., & Porter, N. K. (1988). Leadership and nonverbal behaviors of Hispanic females across school equity environments. [Article]. *Psychology of Women Quarterly*, 12(2), 147.

- Newlands, A., Anderson, A. H., & Mullin, J. (2003). Adapting communicative strategies to computer-mediated communication: An analysis of task performance and dialogue structure. *Applied Cognitive Psychology, 17*(3), 325-348.
- Northouse, G. (2007). *Leadership theory and practice (4th ed)*. Thousand Oak, CA: Sage Publications.
- Nye, J. L. (2002). The eye of the follower-information processing effects on attribution regarding leaders of small groups. *Small Group Research, 33*(3), 337-360.
- Nye, J. L., & Forsyth, D. R. (1991). The effects of prototype-based biases on leadership appraisals. *Small Group Research, 22*(3), 360-379. doi: 10.1177/1046496491223005
- Pfeffer, J. (1977). The ambiguity of leadership. *Academy of Management Review, 2*(1), 104-112.
- Porter, N., & Geis, F. L. (1981). Women and nonverbal leadership cues: When seeing is not believing. In C. Mayo & N. Henley (Eds.), *Gender and nonverbal behavior* (pp. 39-61). New York: Springer Verlag.
- Reichard, R. J., & Riggio, R. E. (2008). An interactive process model of emotions and leadership. In C. L. Cooper & N. Ashkanasy (Eds.), *Research companion to emotions in organizations*. Cheltenham, UK: Edward Elgar Publishers.
- Remland, M. (1981). Developing leadership skills in nonverbal communication: A situational perspective. *Journal of Business Communication, 18*(3), 17-29.
- Remland, M., Jacobson, C., & Jones, T. (1983). Effects of psychological gender and sex-incongruent behavior on evaluations of leadership. *Perceptual and Motor Skills, 57*(3), 783-789.

- Ridgeway, C. L., & Berger, J. (1986). Expectations, legitimation, and dominance behavior in task groups. *American Sociological Review*, 51(5), 603- 617.
- Riggio, R. E. (1986). Assessment of basic social skills. *Journal of Personality and Social Psychology*, 51(3), 649-660.
- Riggio, R. E. (1989). *Manual of the Social Skills Inventory*. Palo Alto, CA: Consulting Psychologists Press.
- Riggio, R. E. (1998). Charisma. In H. S. Friedman (Ed.), *Encyclopedia of mental health* (pp. 387-396). San Diego, CA: Academic Press.
- Riggio, R. E. (2006). Nonverbal skills and abilities. In V. Manusov & M. L. Patterson (Eds.), *The SAGE handbook of nonverbal communication* (pp. 79-95). Thousand Oaks, CA: SAGE.
- Riggio, R. E. (this volume). A social skills model for understanding the foundations of leader communication.
- Riggio, R. E., & Carney, D. C. (2003). *Manual for the Social Skills Inventory* (2nd ed.). Mountain View, CA: Mind Garden.
- Riggio, R. E., & Reichard, R. J. (2008). The emotional and social intelligences of effective leadership: An emotional and social skill approach. *Journal of Managerial Psychology*, 23(2), 169-185.
- Riggio, R. E., Riggio, H. R., Salinas, C., & Cole, E. J. (2003). The role of social and emotional communication skills in leader emergence and effectiveness. *Group Dynamics: Theory, Research, & Practice*, 7(2), 83-103.

- Sanchez-Cortes, D., Aran, O., Schmid Mast, M., & Gatica-Perez, D. (2011). A nonverbal behavior approach to identify emergent leaders in small groups. *IEEE transactions on multimedia*. doi: 10.1109/TMM.2011.2181941
- Sanderson, D. W. (1993). *Smileys*. Sebastopol, CA: O'Reilly.
- Savvas, T., & Schyns, B. (2012). The face of leadership: Perceiving leaders from facial expression. *The Leadership Quarterly*, 23(3), 545-566. doi: 10.1016/j.leaqua.2011.12.007
- Schmid Mast, M. (2002). Dominance as expressed and inferred through speaking time: A meta-analysis. *Human Communication Research*, 28(3), 420-450.
- Schmid Mast, M. (2010). Interpersonal behavior and social perception in a hierarchy: The Interpersonal Power and Behavior Model. *European Review of Social Psychology*, 21(1), 1-33.
- Schmid Mast, M., & Hall, J. A. (2004a). When is dominance related to smiling? Assigned dominance, dominance preference, trait dominance, and gender as moderators. *Sex Roles: A journal of research*, 50(5/6), 387-399.
- Schmid Mast, M., & Hall, J. A. (2004b). Who is the boss and who is not? Accuracy of judging status. *Journal of Nonverbal Behavior*, 28(3), 145-165. doi: 10.1023/b:jonb.0000039647.94190.21
- Schmid Mast, M., Jonas, K., & Hall, J. A. (2009). Give a person power and he or she will show interpersonal sensitivity: The phenomenon and its why and when. *Journal of Personality and Social Psychology*, 97(5), 851-865. doi: 10.1037/a0016234
- Schmid Mast, M., Jonas, K., Klöckner Cronauer, C., & Darioly, A. (2012). On the importance of the superior's interpersonal sensitivity for good leadership. *Journal of*

- Applied Social Psychology*, 42(5), 1043-1068. doi: 10.1111/j.1559-1816.2011.00852.x
- Schmidt Mast, M., Hall, J. A., Murphy, N. A., & Colvin, C. R. (2003). Judging assertiveness. *Facta Universitatis*, 2(10), 731- 744.
- Schyns, B. (2001). The relationship between employees' self-monitoring and occupational self-efficacy and transformational leadership. *Current Research in Social Psychology*, 7(3), 30-42.
- Schyns, B., Felfe, J., & Blank, H. (2007). Is charisma hyper-romanticism? Empirical evidence from new data and a meta-analysis. *Applied Psychology: An International Review*, 56(4), 505-527.
- Schyns, B., & Schilling, J. (2010). Implicit Leadership Theories: Think leader, think effective? *Journal of Management*, 20, 141-150. doi: 10.1177/1056492610375989
- Schyns, B., & Schilling, J. (2012). How bad are the effects of bad leaders? A meta-analysis of destructive leadership and its outcomes. *The Leadership Quarterly*. Retrieved from <http://www.sciencedirect.com/science/article/pii/S1048984312000872>  
doi:10.1016/j.leaqua.2012.09.001
- Shamir, B., House, R. J., & Arthur, M. B. (1993). The motivational effects of charismatic leadership: A self-concept based theory. *Organization Science*, 4(4), 577-594.
- Shea, C. M., & Howell, J. M. (1999). Charismatic leadership and task feedback: A laboratory study of their effects on self-efficacy and performance. *The Leadership Quarterly*, 10(3), 375-396.
- Stang, D. J. (1973). Effect of interaction rate on ratings of leadership and liking. *Journal of Personality and Social Psychology*, 27(3), 405-408. doi: 10.1037/h0034940

- Stein, R. T. (1975). Identifying emergent leaders from verbal and nonverbal communications. *Journal of Personality and Social Psychology*, 32(1), 125-135. doi: 10.1037/h0076842
- Stein, R. T., & Heller, T. (1979). An empirical analysis of the correlations between leadership status and participation rates reported in the literature. *Journal of Personality and Social Psychology*, 37(11), 1993-2002. doi: 10.1037/0022-3514.37.11.1993
- Stogdill, R. M. (1950). Leadership, membership and organization. *Psychological Bulletin*, 47(1), 1-14. doi: 10.1037/h0053857
- Sullivan, D. G., & Masters, R. D. (1988). "Happy Warriors": Leaders' facial displays, viewers' emotions, and political support. *American Journal of Political Science*, 32(2), 345-368.
- Sutton, C. D., & Woodman, R. W. (1989). Pygmalion goes to work: The effects of supervisor expectations in a retail setting. *Journal of Applied Psychology*, 74(6), 943-950. doi: 10.1037/0021-9010.74.6.943
- Talley, L., L. (2012). *Influence of leader hand gestures on the perception of nonverbal immediacy*. PhD Doctoral dissertation, Walden University. (3527702)
- Taylor, S. J. (2002). *Effects of a nonverbal skill training program on perceptions of personal charisma*. Unpublished doctoral dissertation, University of California, Riverside, CA.
- Tepper, B. J. (2000). Consequences of abusive supervision. *Academy of Management Journal*, 43(2), 178-190.

- Tjosvold, D. (1984). Effects of leader warmth and directiveness on subordinate performance on a subsequent task. *Journal of Applied Psychology, 69*(3), 422-427. doi: 10.1037/0021-9010.69.3.422
- Towler, A. (2003). Effects of charismatic influence training on attitudes, behavior, and performance. *Personnel Psychology, 56*(2), 363-381. doi: 10.1111/j.1744-6570.2003.tb00154.x
- Uhl-Bien, M. (2004). Relationship development as a key ingredient for leadership development. In S. E. Murphy & R. E. Riggio (Eds.), *The future of leadership development* (pp. 129-147). Mahwah, NJ: Lawrence Erlbaum.
- Vrij, A., & Mann, S. (2005). Police use of nonverbal behavior as indicators of deception. In R. E. Riggio & R. S. Feldman (Eds.), *Applications of nonverbal communication*. Mahwah, N. J.: Lawrence Erlbaum.
- Walther, J. B. (1996). Computer-mediated communication: Impersonal, interpersonal, and hyperpersonal interaction. *Communication Research, 23*(1), 3-43.
- Walther, J. B., & D'Addario, K. P. (2001). The impact of emoticons on message interpretation in computer-mediated communication. *Social Science Computer Review, 19*, 324-347.
- Ward, C. D. (1968). Seating arrangement and leadership emergence in small discussion groups. *Journal of Social Psychology, 74*(1), 83-90.
- Weber, M. (1980, original 1921). *Wirtschaft und Gesellschaft [Economy and Society]*. Tuebingen, Germany: Mohr.
- White, S. S., & Locke, E. A. (2000). Problems with the Pygmalion effect and some proposed solutions. *The Leadership Quarterly, 11*(3), 389-415.

Yoo, Y., & Alavi, M. (2004). Emergent leadership in virtual teams: what do emergent leaders do? *Information and Organization*, *14*(1), 27-58. doi:

10.1016/j.infoandorg.2003.11.001

Yukl, G. A. (2010). *Leadership in organizations* (7th ed.). Upper Saddle River, NJ: Pearson Education, Inc.

## Footnotes

1. Hall and colleagues' meta-analysis also includes studies with personality dominance (single target). In this chapter, we only took the results on emergent leadership and perceived dominance (group interaction).
2. Whereas originally, charisma referred to attributes of leaders (Weber, 1980, original 1921), modern research focuses on the behavioral side of charisma, which is represented in the notion of transformational leadership (Bass, 1985). Charismatic and transformational leadership both refer to the same phenomenon (cf., Schyns, 2001) and can be used interchangeably.

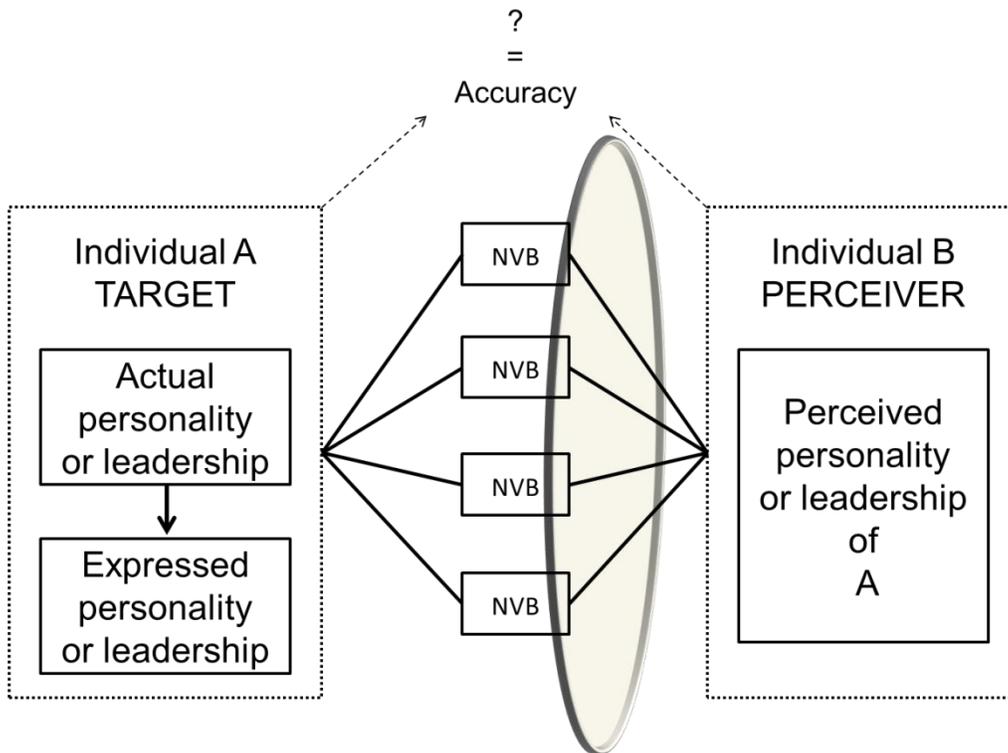
Table 1  
Overview of Results Regarding the Role of NVB in Leadership

NVB Categories	Emergent leadership/ Perception of leadership	Expression of leadership	Effective leadership						
			Leader's supportive-ness	Leader's professional success	Attraction toward the leader	Follower's performance	Satisfaction with leader	Motivation to work with leader	Meeting the leader socially
<b>Smiling</b>			+			+	+	+	+
<b>Gazing/ Eye contact</b>	+	+	+	+		+	+	+	+
<b>Visual dominance<sup>c</sup></b>	+								
<b>Lowered eyebrows</b>	+								
<b>Facial expressiveness /intensity</b>		+	+	+			+	+	+
<b>Nodding</b>	+		+						
<b>Self-touch</b>	-								
<b>Other touch</b>			+	+					
<b>Hand/arm gestures</b>	+	+			+				
<b>Postural openness</b>	+	+							
<b>Postural relaxation</b>									
Erect posture	+	+							
Forward lean		+							
<b>Body/leg shifting</b>	+								
<b>Interpersonal distance</b>			-				-	-	-
<b>Facing orientation</b>			+						
<b>Vocal variability</b>	+	+	+				+	+	+
<b>Interruptions</b>	+		-						

<b>Speaking time <sup>c</sup></b>	+									
<b>Speech errors</b>		-								
<b>Faster rate of speech</b>	+	+								
<b>Lower voice pitch</b>	+			+						
<b>Vocal relaxation</b>	+						+			
<b>Seating position <sup>c</sup></b>										
Head of table	+									
Edge of the desk								+	+	+

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Note: The categories related to leadership are based on Hall et al.'s meta-analysis (2005, p. 903)  
 + = positive and significant relationship (e.g., more vocal variation, more gesture); - = negative and significant relationship (e.g., less speech errors, less interruption); a = Enlarged pupil size; b = Soft voice; c = three additional NVB categories besides Hall et al.'s meta-analysis; blank cells = relations were not tested.



3.

Figure 1. Leadership and NVB based on the Brunswikian lens model (Brunswik, 1956)