



**Inherently Relational: Interactions Between Peers' and  
Individuals' Personalities Impact Reward Giving and  
Appraisal of Individual Performance.**

Journal:	<i>Academy of Management Journal</i>
Manuscript ID:	AMJ-2011-0214.R4
Manuscript Type:	Revision
Keywords:	Personality and individual differences < Organizational Behavior < Topic Areas, Attitudes, cognitions, and affect (General) < Attitudes, Cognitions, and Affect < Organizational Behavior < Topic Areas, Behavior (General) < Behavior < Organizational Behavior < Topic Areas
Abstract:	<p>Introverted individuals may experience and evaluate their dyadic work relationships differently than extraverts. In two studies, we investigated the interaction effect of an individual's and observing peer's personality traits on performance evaluations and reward giving. Study 1 showed that introverted (but not extraverted) peers consistently evaluated extraverted and disagreeable (but not introverted and agreeable) individuals' performance as lower. Study 2 replicated these findings with regard to performance evaluation and reward giving using an experimental design that manipulated actor personality and held objective performance constant. The results also showed that introverts' trait sensitivity and negative person impressions mediated these relationships. Overall, results support an information utilization model of interpersonal dyadic evaluation, wherein introverts are more sensitive to interpersonal personality traits than their extraverted counterparts, incorporating interpersonal traits in person impressions and subsequent evaluations and reward distributions. We conclude with implications for dyadic workplace interactions, personality, and sources of emergent dyadic influences on performance evaluation.</p>

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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

## Inherently Relational: Interactions between Peers' and Individuals' Personalities Impact Reward Giving and Appraisal of Individual Performance

**Amir Erez**

University of Florida  
amir.erez@warrington.ufl.edu

**Pauline Schilpzand**

Oregon State University  
Pauline.Schilpzand@bus.oregonstate.edu

**Keith Leavitt**

Oregon State University  
keith.leavitt@oregonstate.edu

**Andrew H. Woolum**

University of Florida  
woolum@ufl.edu

**Timothy A. Judge**

University of Notre Dame  
tjudge@nd.edu

*Author Notes:* We thank Editor Adam Grant and three anonymous reviewers for their efforts in developing and improving this manuscript. We also thank Don Neubaum for contributing his voice acting talents to Study 2.

1  
2  
3 **Inherently Relational: Interactions between Peers' and Individuals' Personalities Impact**  
4 **Reward Giving and Appraisal of Individual Performance**  
5  
6  
7

8 **ABSTRACT**  
9

10 Introverted individuals may experience and evaluate their dyadic work relationships differently  
11 than extraverts. In two studies, we investigated the interaction effect of an individual's and  
12 observing peer's personality traits on performance evaluations and reward giving. Study 1  
13 showed that introverted (but not extraverted) peers consistently evaluated extraverted and  
14 disagreeable (but not introverted and agreeable) individuals' performance as lower. Study 2  
15 replicated these findings with regard to performance evaluation and reward giving using an  
16 experimental design that manipulated actor personality and held objective performance constant.  
17  
18 The results also showed that introverts' trait sensitivity and negative person impressions  
19 mediated these relationships. Overall, results support an information utilization model of  
20 interpersonal dyadic evaluation, wherein introverts are more sensitive to interpersonal  
21 personality traits than their extraverted counterparts, incorporating interpersonal traits in person  
22 impressions and subsequent evaluations and reward distributions. We conclude with implications  
23 for dyadic workplace interactions, personality, and sources of emergent dyadic influences on  
24 performance evaluation.  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 The relationships we have with coworkers can profoundly impact our work experiences,  
4 well-being, and productivity. Recent findings that having a best friend at work is a key indicator  
5 of engagement (Buckingham & Coffman, 1999) and that employees often search for a sense of  
6 community in the workplace (Klein & D'Aunno, 1986; Pfeffer, 2006) bolster the notion that  
7 relational counterparts are especially relevant to our work experience. For example, work design  
8 research shows that interpersonal relationships have strong impacts on jobs, roles, and tasks  
9 (Grant & Parker, 2009). Relationships between coworkers are some of the strongest determinants  
10 of well-being (Myers, 1999) and perceptions of meaningful work (Gersick, Bartunek, & Dutton,  
11 2000; Wrzesniewski, Dutton, & Debebe, 2003), creativity (Burt, 2004; Perry-Smith, 2006), and  
12 career mobility (Gersick et al., 2000). In addition, two recent meta-analyses showed that social  
13 support between coworkers was strongly related to organizational variables such as absenteeism,  
14 turnover intentions, job satisfaction, organizational commitment (Humphrey, Nahrgang, &  
15 Morgeson, 2007), effort reduction, and individual performance (Chiaburu & Harrison, 2008).

16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34 Work is intimately intertwined with social relationships (Grant & Parker, 2009), and  
35 individuals often define themselves in their workplaces vis-à-vis their relationships to others  
36 (Sluss & Ashforth, 2007). Organizational members constantly assess the extent to which their  
37 peers are valuable contributors, and to what extent they are deserving of credit for collective  
38 successes (Gómez, Kirkman, & Shapiro, 2000). Accordingly, the evaluations made of us by our  
39 peers can have profound effects on our careers through informal channels for personal success,  
40 including sharing vital information (Cerne, Nerstad, Dysvik, & Škerlavaj, 2013), spreading  
41 harmful or beneficial reputational information (Feinberg, Cheng, & Willer, 2012; Feinberg,  
42 Willer, Stellar, & Keltner, 2012), or directly helping in our efforts (Bowler & Brass, 2006).  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

Moreover, peer evaluation influences our success through formal channels, including direct peer evaluation in self-managed teams (Ilgen & Pulakos, 1999) or via 360 degree feedback systems which may be considered in formal appraisal and promotion decisions (Mount, Judge, Scullen, Sytema, & Hezlett, 1998). Indeed, a recent Wallstreet Journal article points out that peer performance reviews are becoming increasingly popular in organizations (Silverman & Kwoh, 2012). Organizations such as Oracle and Google now rely on employees to monitor and incentivize their coworkers via a peer bonus system, and services such as [www.bonus.ly](http://www.bonus.ly) help organizations integrate peer bonuses into their cultures and operations. Social media websites (such as [www.linkedin.com](http://www.linkedin.com)) allow individuals to endorse their peers, and such recommendations may create advantageous opportunities. Thus, organizational scholars should find great interest in uncovering relational characteristics which influence the evaluations we make of others in the workplace, as evaluations made by one's coworkers can increasingly impact career outcomes.

Surprisingly, however, dyadic interactions between coworkers are rarely tested in the organizational literature (for exceptions see Bakker & Xanthopoulou, 2009; Curhan & Pentland, 2007; Ferrin, Bligh, & Kohles, 2008; Yalovleva, Reilly, & Werko, 2010). Indeed, the way we feel in the presence of others is driven by both the traits of the interaction partner as well as the traits of the focal individual (Eisenkraft & Elfenbein, 2010), yet organizational researchers often make the error of considering the characteristics and traits of only one of the interacting peers (Duncan, Kanki, Mokros, & Fiske, 1984). We argue that reactions to the personalities of others vary as a function of the traits of the raters themselves. Specifically, we explore how the interpersonal traits (i.e., extraversion and agreeableness) of focal individuals (actors), and their

1  
2  
3 observing peers (peers)<sup>1</sup>, interact to affect the evaluations that peers make of the contributions of  
4  
5 actors, resulting in dyadic differences in evaluations of performance, peer bonuses and  
6  
7 recommendations for opportunities given to the actor. Critically, we focus here on how  
8  
9 introverts' differential sensitivity to the interpersonal traits of others influence how they form  
10  
11 judgments of their team members, with consequences for how they subsequently rate and reward  
12  
13 them. Regardless of whether the interpersonal traits that underlie such judgments eventually help  
14  
15 or hinder collective performance or whether the judgments themselves are accurate, a systematic  
16  
17 "rater by actor" effect in evaluations and rewards may have critical implications for the careers  
18  
19 of those involved.  
20  
21  
22  
23

24 Drawing from the Realistic Accuracy Model (RAM) of personality judgment (Funder,  
25  
26 1995), we present an information-utilization model of interpersonal dyadic evaluation. We  
27  
28 propose that complementary processes of trait sensitivity and general impression formation make  
29  
30 introverted (but not extraverted) peers especially reactive to interpersonal personality traits (i.e.,  
31  
32 agreeableness and extraversion) of focal actors. Accordingly, introverts are likely to pay special  
33  
34 attention to interpersonal traits, and also construct more negative general person impressions  
35  
36 when interacting with disagreeable and extraverted individuals. In previewing our results, trait  
37  
38 sensitivity and negative person impressions constructed by introverted peers lead to diminished  
39  
40 evaluations of performance and distribution of rewards for disagreeable and extraverted actors.  
41  
42  
43  
44

45 In our first study, we use a field sample of in-tact and enduring teams to determine  
46  
47 whether extraverted and disagreeable team members are evaluated more poorly by their  
48  
49 introverted (but not extraverted) peers. In our second study, we use an experiment wherein actor  
50  
51 personality was carefully manipulated and the task performance contributions of actors was held  
52  
53  
54

---

55  
56 <sup>1</sup> The terms actors and partners are commonly used in dyadic analysis to describe relationships between participants  
57  
58 (see Kenny, Kashy, & Cook, 2006). However, because we discuss evaluations made by partners as the focal  
59  
60 outcome, we use the term "observing peers" to facilitate clarity throughout.

1  
2  
3 constant to test mediating mechanisms of the proposed effect, and determine whether trait  
4 interactions (in the absence of differences in task performance) produce systematic deviations in  
5 evaluations and provisions of peer bonuses and promotion recommendations. The combined  
6 results of our two studies support a model demonstrating that introverts (but not extraverts)  
7 systematically evaluate their peers more negatively as a function of actor disagreeableness and  
8 extraversion, with potentially negative outcomes for the actor. As such, introverts may  
9 unknowingly serve a critical role as gatekeepers of outcomes in organizational settings.

### 20 INTERPERSONAL TRAITS: AN INTERACTIONIST APPROACH

21  
22 Personality traits are important to individuals' functioning in the workplace because the  
23 cognitions, emotions, and behaviors reflected in personality are thought to contribute not only to  
24 task performance (see Barrick, Mount, & Judge, 2001) but also to how individuals react and  
25 relate to each other while performing work together (e.g., LePine, Buckman, Crawford, &  
26 Methot, 2011; LePine & Van Dyne, 2001). Two traits in particular have been demonstrated to be  
27 specifically relevant for social interactions: extraversion and agreeableness (McCrae & Costa,  
28 1989; Wiggins & Trobst, 1999). These traits fit closely with the interpersonal circumplex  
29 dimensions of *dominant—submissive* and *agreeable—cold-hearted* (Wiggins & Trapnell, 1996).  
30 As McCrae and Costa (1989) note, "Extraversion and Agreeableness define the plane of  
31 interpersonal behavior," with the interpersonal circumplex being comprised of "the two-  
32 dimensional plane defined by Extraversion and Agreeableness" (McCrae & Costa, 1989: 590).  
33 Hence, extraversion and agreeableness are the traits we expect to be specifically relevant when  
34 assessing interpersonal personality influences on work outcomes.

35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53 Personality exists as both real underlying attributes/traits of individuals (Funder, 1995),  
54 as well as consistent behavioral acts which can be observed and utilized by others (Fleeson,  
55  
56  
57  
58  
59  
60

1  
2  
3 2001; Connelly & Ones, 2010). Accordingly, Funder's (1995) Realistic Accuracy Model (RAM)  
4  
5 of personality judgment suggests that individuals attempt to accurately rate and utilize the traits  
6  
7 of others in order to successfully anticipate their likely behavior (Funder, 1995). In order to  
8  
9 evaluate the personality traits of another, the environment must allow the target to express the  
10  
11 trait (Relevance); the encounter must allow for observation of trait expression (Availability); the  
12  
13 observer must notice trait-relevant cues (Detection), and the observer has to appropriately  
14  
15 assemble these cues to form an impression of the target (Utilization; Funder, 1995).  
16  
17  
18  
19

20         Critically, the priorities an individual places on detecting specific traits in others may  
21  
22 vary (Funder, 1995). Because people evaluate the personalities of others for functionalist goals  
23  
24 such as protecting themselves from interpersonal conflicts (Funder, 1995), we argue that  
25  
26 introverts and extraverts will differentially both *detect* and *utilize* trait information gleaned from  
27  
28 interactions with peers to evaluate their behavior. Indeed, individuals evaluate others with their  
29  
30 own chronically activated schemas in mind (Markus, Smith, & Moreland, 1985). For example, in  
31  
32 one study, less sociable (i.e., introverted) individuals demonstrated greater accuracy in  
33  
34 identifying extraversion levels and other traits of those whom they had just met (Ambady,  
35  
36 Hallahan, & Rosenthal, 1995). However, individuals may also utilize traits differently in making  
37  
38 judgments about the target. Supportingly, Bargh, Bond, Lombardi and Tota (1986) found that  
39  
40 participants who were shy (or kind) were more likely to interpret ambiguously shy (or kind)  
41  
42 target behaviors in terms of that trait than other participants, suggesting that our interpretations  
43  
44 of the traits of others are made with our own perspectives in mind.  
45  
46  
47  
48  
49

50         Funder (1995) argued that trait utilization may be moderated by a *judge X information*  
51  
52 *sensitivity interaction*: "Certain judges might prefer or be able to receive and use certain kinds of  
53  
54 information but not other kinds...this tendency of certain judges to search for and perceive  
55  
56  
57  
58  
59  
60



1  
2  
3 certain information, or to weigh certain kinds of information more heavily in their judgments, is  
4 called *sensitivity*” (Funder, 1995: 664). Accordingly, we first argue that introverts (but not  
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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

certain information, or to weigh certain kinds of information more heavily in their judgments, is called *sensitivity*” (Funder, 1995: 664). Accordingly, we first argue that introverts (but not extraverts) are more likely to monitor behavior with particular concern for interpersonal traits. Second, we argue that introverts (but not extraverts) are more likely to utilize interpersonal traits in forming general impressions and then evaluate others through that lens.

### **Introversion as a trait-sensitivity amplifier**

Prior work suggests two reasons why introversion should amplify sensitivity to interpersonal traits within interdependent settings. First, introversion is generally associated with reduced assertiveness (Bendersky & Shah, 2013; Lobel, 1981), and individuals lower in assertiveness generally prioritize relational outcomes such as reduced interpersonal conflict (i.e., Ames, 2008). Thus, introverts may actively monitor their potential teammates for signals that behaviors related to competition and conflict may be forthcoming. Accordingly, trait signals of extraversion (perceived as associated with poor listening and low receptivity; Grant, Gino, & Hoffman, 2011) and disagreeableness (associated with argumentativeness; Barrick et al., 2001) should be particularly useful to introverts.

Second, introverts display generally enhanced sensory processing sensitivity and responsiveness to stimuli (Stelmack, 1990). Studies have shown that introverts are more sensitive to loud noises, temperature extremes, bright sunrays, and to irritating stimuli (Aron & Aron, 1997). Indeed, introverts exhibit significantly greater overall sensory-processing sensitivity than extraverts (Aron & Aron, 1997), indicating that they pay more attention than extraverts to even slight stimuli. Thus, the tendency of introverts to be stimulated by their environment should also make them more reactive to the effects of other people’s interpersonal traits.

***Introverted peers are more sensitive to actor (dis)agreeableness.***

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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

Because most social situations are somewhat ambiguous (Bruner, 1958), many disagreeable behaviors may be interpreted as benign. However, we argue that introverts may be more generally sensitive to the agreeableness of potential interaction partners for two reasons. First, agreeableness signals the likelihood of cooperation and reciprocity (Ames & Bianchi, 2008). Although trait (dis)agreeableness has multiple facets, individuals low in agreeableness are “more argumentative, inflexible, [and] uncooperative,” and these tendencies are likely to have negative effects on peers (Barrick et al., 2001). Indeed, the conflict oriented behaviors of disagreeable actors should elicit strong reactions from others, because the need to protect oneself from potential social harm is a fundamental human motive (Kenrick, Li, & Butner, 2003). Because introverted peers are generally lower in assertiveness than their extroverted counterparts (Bendersky & Shaw, 2013; Lobel, 1981), introverted peers are likely to view disagreeable actors as particularly problematic, as introverts are less likely to engage in assertive and corrective behaviors when arguments occur (Lobel, 1981).

Second, the disagreeable behaviors of actors may be more rapidly detected by introverts than by extraverts simply because such behaviors may create obstacles to the outcomes which introverts favor: relational outcomes (Bendersky & Shah, 2013). By contrast, extraverts often prioritize instrumental outcomes, and thus may simply find (dis)agreeableness less diagnostic.

***Introverted peers are more sensitive to actor extraversion.***

Prior research has demonstrated that less sociable (i.e., introverted) individuals are more capable of discerning extraversion in zero acquaintance encounters (Ambady et al., 1995). We suggest that introverted peers are more sensitive to extraversion because they recognize that highly assertive (i.e., extraverted) actors often compromise relational outcomes in the interest of

1  
2  
3 instrumental ones (Ames & Flynn, 2007), and because extraverts are often afforded initial high  
4 status in the absence of relevant performance information (Bendersky & Shah, 2013).  
5  
6

7  
8 First, while extraversion is associated with sociability, it is also defined by social  
9 dominance. Bono, Boles, Judge and Lauver (2002) found that the average level of extraversion  
10 in roommate pairs was associated with increased relationship conflict. Further, extraverts  
11 frequently sacrifice interpersonal harmony for the sake of instrumentality (Ames, 2008). While  
12 most people naturally resist domination by others (Driskell, Olmstead, & Salas, 1993; Ridgeway,  
13 1987), dominant behavior may sometimes be difficult to detect (Gottman & Ringland, 1981;  
14 Dunbar & Burgoon, 2005), suggesting that individuals will expend effort to detect it only to the  
15 extent to which it is useful for them to do so. Introverts, who care about relational outcomes,  
16 should therefore be more sensitive to these traits. Second, researchers have argued that because  
17 of increased assertiveness, extraverts are often afforded high status within newly formed groups  
18 (Bendersky & Shah, 2013), and that such status conferrals might come at the expense of their  
19 peers who don't display these traits (i.e., introverts). We suggest that introverts may be aware of  
20 the fact that high status conferrals afforded to extraverts may come at their own expense. Thus,  
21 introverts should be motivated to rapidly detect trait extraversion in their coworkers.  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40

41 Additionally, extraverted behaviors may be viewed critically by introverted peers because  
42 extraversion signals possible conflict. Extraversion has been conceptualized as the tendency to  
43 exhibit high levels of intense emotions and energy (Watson & Clark, 1997). Extraverts are  
44 particularly good at expressing and transmitting intense emotions (Hatfield, Cacioppo, &  
45 Rapson, 1994), such as anger. In turn, their conflict orientation makes extraverts exhibit  
46 behaviors that may be perceived as highly aversive. Therefore, for similar reasons that introverts  
47 would be sensitive to disagreeableness, they should also be sensitive to signals of extraversion.  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 By contrast, extraverted peers find interpersonal competition less threatening than their  
4  
5 introverted counterparts (Schneer & Chanin, 1987), and highly assertive (i.e., extraverted) peers  
6  
7 generally over-emphasize instrumental outcomes within work teams (Ames & Flynn, 2007).  
8  
9

10 Thus, extraverts are less likely to find traits related to extraversion especially diagnostic.

### 11 **Introversion as a filter of trait information utilization in forming person impressions**

12  
13 We suggest that introverts will not only differentially attend to interpersonal traits, but  
14  
15 that they will also utilize interpersonal traits in constructing overall impressions. Humans tend to  
16  
17 judge others' behaviors based on the general person impression they have formed of them (Srull  
18  
19 & Wyer, 1989). By *person impressions*, we refer to the top-down mental representation of what a  
20  
21 person is like in general (including both trait-based expectations and likeability), constructed for  
22  
23 use in future interactions and judgments (Srull & Wyer, 1989). A given behavior, then, may be  
24  
25 interpreted in several different ways (cf. Bruner, 1957) depending on the favorability evaluations  
26  
27 formed about the person. For example, a person's comment may be interpreted to be brilliant,  
28  
29 eccentric, or socially awkward based on the general impression formed in the first few minutes  
30  
31 of interacting with him (Pfeffer, 2010). As such, general person impressions may have a  
32  
33 profound effect on how people interpret the behaviors of others. Indeed, when a person is  
34  
35 described by a set of adjectives, evaluations of the positivity of any descriptor increase with the  
36  
37 positivity of those that accompany it (Anderson & Lampel, 1965; Kaplan, 1975; Wyer, 1974).  
38  
39  
40  
41  
42  
43  
44  
45

46 This effect is also known as the halo effect (Nisbett & Wilson, 1977) which suggests that  
47  
48 known attributes of a person influence the way individuals perceive unknown attributes that are  
49  
50 unrelated to the behaviors that informed the general impression. Thus, if an individual has  
51  
52 formed the general impression of another as being disagreeable, this perception may cast a halo  
53  
54 on other aspects of the other person's personality (e.g., her honesty; Higgins, Rholes, & Jones,  
55  
56  
57  
58  
59  
60

1  
2  
3 1977; Srull & Wyer, 1979; 1980). When people observe another's behaviors, they attempt to  
4  
5 interpret each behavior in terms of more general trait concepts that come to mind at the time of  
6  
7 evaluation, eventually aggregating to a general evaluative impression (Srull & Wyer 1989). Once  
8  
9 they form such a general impression of a person, they interpret this person's subsequent  
10  
11 behaviors according to this *overall* evaluative concept (i.e., likeability) and not the specific  
12  
13 behavior or trait-level impressions (i.e., extravert) (Srull & Wyer, 1989).  
14  
15

16  
17  
18 ***Introverted peers are more likely to utilize actor (dis)agreeableness to form impressions***  
19

20 According to Funder's (1995) model, trait utilization in impression formation depends in  
21  
22 part on the judge, who may differentially incorporate certain traits. Thus, while agreeableness  
23  
24 provides information to interaction partners about one's ability to interact smoothly with others  
25  
26 (Barrick et al., 2001), agreeableness may not be equally useful to everyone. Indeed, Ames and  
27  
28 Bianchi (2008) found that individuals differentially attended to agreeableness of a potential  
29  
30 interaction partner, as a function of their own likely positional power in the interaction.  
31  
32 Specifically, those evaluating from the perspective of a potential subordinate included judgments  
33  
34 of agreeableness in their assessments; by contrast, those evaluating from a position of power  
35  
36 largely excluded judgments of agreeableness from their assessments (Ames & Bianchi, 2008).  
37  
38  
39

40  
41 Because introverted individuals are typically quieter and more reserved in their social  
42  
43 interactions (Gosling, John, Craik, & Robins, 1998) and are less assertive (Bendersky & Shah,  
44  
45 2013) they are generally placed in positions of relatively low social power compared to their  
46  
47 extraverted counterparts (Grant, Gino, & Hofmann, 2011). In turn, individuals low in social  
48  
49 power are likely to vigilantly monitor for signs that higher power individuals may cause them  
50  
51 harm (Galinsky, Magee, Inesi, & Gruenfeld, 2006). Furthermore, because of introverts' desire to  
52  
53 avoid arguments and aggressive interactions (Blickle, 1997), they may place a premium on  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 utilizing trait agreeableness when judging others. By contrast, because extraverts enjoy the  
4  
5 benefits of dominance and social power in their dyadic interactions (Grant et al., 2011), and  
6  
7 because they focus more on instrumental outcomes (Ames & Flynn, 2007), agreeableness may  
8  
9 be less useful for extraverted peers in forming a judgment about the actor.  
10  
11

12  
13 *Introverted peers are more likely to utilize actor extraversion to form impressions*  
14

15 Similarly, we suggest there is differentially useful information for introverts to be found  
16  
17 in the trait extraversion of others. Although there are qualities of extraverts that draw others  
18  
19 toward them (e.g., friendliness, sociability), extraverts may also be described as domineering,  
20  
21 bossy, aggressive, unrestrained, outspoken, and forceful (Costa & McCrae, 1992; Trapnell &  
22  
23 Wiggins, 1990). Extraversion has been related to a preference for both dominance and  
24  
25 competition as conflict resolution strategies (Schneer & Chanin, 1987) and the tendency to be  
26  
27 argumentative (Blickle, 1997). Because introverts are apprehensive about initiating  
28  
29 communication within groups (Opt & Loffredo, 2000) and generally adopt a less confrontational  
30  
31 interaction style (Blickle, 1997), trait extraversion in others should be perceived as potentially  
32  
33 threatening, and hence especially relevant in forming judgments of others.  
34  
35  
36  
37

38 By contrast, while extraverted peers may detect the extraversion of others, they might be  
39  
40 less likely to utilize it in constructing their evaluations of others. Although extraverted peers may  
41  
42 recognize the potential for conflict with extraverted actors, their preference for dominance and  
43  
44 competition attenuates the perceived threat of other extraverts (Schneer & Chanin, 1987).  
45  
46 Additionally, because those operating from positions of high social power (i.e., extraverts) are  
47  
48 more concerned with performance-relevant traits in constructing their judgments of others (Ames  
49  
50 & Bianchi, 2008), extraverted individuals should be less likely to utilize trait extraversion in  
51  
52 forming performance evaluations.  
53  
54  
55  
56  
57  
58  
59  
60

### Performance evaluation and rewards giving

As work is increasingly completed through collaboration (Ilgen & Pulakos, 1999), organizations have increasingly relied upon peer evaluations and peer rewards to maintain effective work relationships. Because introverts are more likely to attend to interpersonal traits, we reason that they will likely attend to the negative interpersonal behavior of disagreeable and extraverted actors when evaluating performance. In this sense, the sensitivity of introverts to others' traits should contribute to how they evaluate the performance of others.

Because appraisal ratings are necessarily made in the absence of complete information and certainty of memory (Wherry & Bartlett, 1982; Martell & Leavitt, 2002), biases in observation (i.e., what behaviors are attended to) and biases in recall (i.e., which behaviors are filtered and utilized in evaluation) can have dramatic effects on performance ratings (Wherry & Bartlett, 1982). Accordingly, less performance-relevant information (e.g., race; past performance history) can have an effect on the way we evaluate others' performance (Hekman, Aquino, Owens, Mitchell, Schilpzand, & Leavitt, 2010; Martell & Leavitt, 2002). Thus, because introverts are more likely to detect and utilize interpersonal traits in their judgments, they should be more likely to include such information in their appraisals and in granting rewards.

Whether or not the impressions introverts form and in turn influence their performance evaluations of others can be interpreted as more comprehensive (i.e., considering traits which may ultimately disrupt others in the group) or simply more biased, we expect that the trait sensitivity of introverts (but not extraverts) and the negative person impressions of disagreeable and extraverted individuals constructed by introverted (but not extroverted) peers should negatively affect evaluations of performance. Indeed, individuals generally face some degree of uncertainty when rating and rely upon person impressions to "fill-in the gaps" (Wherry &

1  
2  
3 Bartlett, 1982), and may also reweight performance criteria to justify decisions reflecting their  
4 own social preferences or biases (Uhlmann & Cohen, 2005). Because the person impressions  
5 made by introverted peers will be focused heavily on aspects of relational behavior, we expect  
6 the (negative) judgments made of disagreeable and extraverted actors by introverted peers to  
7 downwardly influence their performance evaluations. We also expect peers' sensitivity to the  
8 actors' traits and peers' general impressions of the actors to mediate these relationships (i.e., first  
9 stage mediation, Edwards & Lambert, 2007).

10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20 Further, rewards and advancement opportunities are not necessarily strongly related to  
21 performance (Dohmen, 2004; Carmeli, Shalom, & Weisberg, 2007; Pfeffer, 2010; Zenger, 1992).  
22 However, there is ample evidence to suggest that both traits (Judge, Higgins, Thoresen, &  
23 Barrick, 1999; Seibert, Crant, & Kraimer, 1999) and person impressions (Flynn, Chatman, &  
24 Spataro, 2001) can effect career outcomes. Thus, we expect the interactions between peer trait  
25 (introversion) and actor traits (disagreeableness and extraversion) to also affect the rewards and  
26 recommendations for advancement given to the actor. Moreover, given that we expect trait  
27 interactions to influence the trait sensitivity and impressions that are formed, we in turn also  
28 expect trait sensitivity and person impressions to mediate the relationship between trait  
29 interactions and rewards. Thus, we hypothesize that peer observer by actor trait interactions will  
30 influence both peer observers' performance evaluations made about the focal actor, as well as the  
31 rewards they give the actor in the following ways:

32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48 *Hypothesis 1a: There will be an interaction between observing peers' extraversion and*  
49 *actors' extraversion in predicting observing peers' performance evaluations of and*  
50 *rewards given to actors. Specifically, performance evaluations and reward-allotments*  
51 *made by introverts to their extraverted counterparts will be more negative than those*  
52 *made by extraverted peers.*

53  
54  
55  
56  
57  
58  
59  
60  
*Hypothesis 1b: There will be an interaction between observing peers' extraversion and*  
*actors' agreeableness in predicting observing peers' performance evaluations of and*



1  
2  
3 *rewards given to actors. Specifically, performance evaluations and reward allotments*  
4 *made by introverts to their disagreeable counterparts will be more negative than those*  
5 *made by extraverted peers.*  
6  
7

8 *Hypothesis 2a: Trait-sensitivity mediates the interaction between observing peers'*  
9 *extraversion and actors' extraversion on performance evaluations of and reward given to*  
10 *the actor.*  
11

12 *Hypothesis 2b: Trait-sensitivity mediates the interaction between observing peers'*  
13 *extraversion and actors' agreeableness on performance evaluations of and rewards given*  
14 *to the actor.*  
15  
16

17 *Hypothesis 3a: Person impressions made of actors mediate the interaction between*  
18 *observing peers' extraversion and actors' extraversion on performance evaluations of*  
19 *and reward given to the actor.*  
20  
21

22 *Hypothesis 3b: Person impressions made of actors mediate the interaction between*  
23 *observing peers' extraversion and actors' agreeableness on performance evaluations of*  
24 *and rewards given to the actor.*  
25  
26

## 27 **STUDY 1**

  
28

### 29 **Participants and Procedure**

  
30

31 Graduate students enrolled in five sections of a required Management course at a large  
32 Southeastern university voluntarily participated in a study on "team effectiveness" in exchange  
33 for extra credit. Ninety-seven of the 178 participants were working professional or executive  
34 MBA students and the rest were traditional MBA or Master in Management students. Average  
35 age was 29.5; average work experience was 8.23 years (SD = 5.79), and 73% were male.  
36 Students were assigned to four or five-person teams by the MBA office at the beginning of their  
37 program. The study was introduced around the midpoint of the semester and consisted of  
38 completing an online questionnaire about team members, team processes, and the focal  
39 participant's personality. One hundred ninety one students of 207 elected to participate (92%).  
40 Due to missing data, responses from 178 participants were included in the analyses.  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

## Measures

**Performance evaluations.** Each team member rated his or her 3-4 team members on 13 items taken from the Role Based Performance Scale (RBPS, Welbourne, Johnson, & Erez, 1998). The RBPS consists of five dimensions of performance of which four (task, creative, team, and citizenship) were used. The dimension of career was excluded as it was deemed irrelevant in this context, as were two items from the other dimensions (e.g., customer service). The RBPS has been validated extensively in multiple settings (Welbourne et al. 1998). Participants rated their team members on a scale ranging from 1 = *need much improvement* to 5 = *excellent*. Example items include: “Quantity of work output (task),” “Coming up with new ideas (creative),” and “Doing things that help others (citizenship).” The coefficient alpha reliability estimate for this scale was .95.

**Agreeableness.** Agreeableness was measured with the Mini-Markers agreeableness scale developed by Saucier (1994). The 10-item scale asked participants to describe themselves by responding to adjectives such as “sympathetic,” “warm,” “cooperative,” and “harsh (reverse item)” on a five-point response scale (1 = *very inaccurate* to 5 = *very accurate*). Coefficient alpha for this measure was .84.

**Extraversion.** Extraversion was measured with the Mini-Markers extraversion scale (Saucier, 1994). The 10-item scale asked participants to describe themselves using adjectives such as “extraverted,” “talkative,” “assertive,” and “shy (reverse item)” on a five-point rating scale (1 = *very inaccurate* to 5 = *very accurate*). The coefficient alpha for this measure was .91.

## STUDY 1 RESULTS

Means, standard deviations, and intercorrelations of all variables appear in Table 1. We employed a social relations model dyadic (i.e., round-robin) design in which each person rated

1  
2  
3 all other team members (Kenny et al., 2006). As a preliminary analysis we partitioned the  
4 variance of performance evaluation into variance-components using Kenny's (1995) SOREMO  
5 program for the round-robin data structure. Variance partitions for performance evaluation  
6 suggested that judgments of performance are mainly dependent on interactive relationship  
7 effects. Variance due to actor effect (13%,  $p < .05$ ) indicates that only a small portion of the  
8 performance ratings were due to attributes of the actor. Twenty six percent ( $p < .05$ ) of the  
9 performance evaluation variance was due to peer effects; and 36%<sup>2</sup> was accounted for by the  
10 relationships or the dyadic interaction between actors and peers.  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21

22 In order to test the influence of the personalities of peers and actors on peer evaluations  
23 of the actor's performance we used a dyadic method for Hierarchical Linear Modeling (HLM  
24 6.08, Raudenbush, Bryk, & Congdon, 2009) developed by Campbell and Kashy (2002). This  
25 method accounts for the interdependence of the dyads by modeling how the peer and actor  
26 independent variables affect the peer outcomes. In this method each dyad is treated as a group of  
27 two individuals. At level 1 each dyad has two rows, and in each row the rated performance of a  
28 dyad member (as given by the other member) is regressed on the mixed predictor variables of  
29 peer and actor personality as well as personality interactions of the actor and the peer. For  
30 example, in a dyad consisting of peers A and B, the first row regresses A's performance (as  
31 given by B) on A's extraversion, B's extraversion, and the interaction between A's and B's  
32 extraversion. In turn, the second row regresses B's performance (as given by A) on B's  
33 extraversion, A's extraversion, and the interaction between B's and A's extraversion.  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49

50 Accordingly, at level 1 we regressed the performance rating on the extraversion and  
51 agreeableness of both the actor and the observing peer and the interaction between the peer's  
52  
53  
54

---

55  
56  
57 <sup>2</sup> We conducted another analysis using the four facets of performance in the Welbourne et al. (1998) scale to  
58 calculate the error variance (25%).  
59  
60

1  
2  
3 extraversion and actor's extraversion and agreeableness. At level 2 a null model was specified  
4  
5 where each  $\beta$  coefficient from the first level was the dependent variable and, except for the  
6  
7 intercept that had an error term, ( $\beta_{0j} = \gamma_{00} + U_{0j}$ ) all other coefficients were tested as fixed-effects  
8  
9 without error terms (i.e.,  $\beta_1 = \gamma_{10}$ ).<sup>3</sup>  
10  
11

12  
13 The results of the HLM analysis for all three data sets are reported in Table 2, and show  
14  
15 that both agreeableness and extraversion of actors interacted with extraversion of peers to  
16  
17 influence evaluations of actors' performance in all three sub-samples. A graph of the interaction  
18  
19 between peers' and actors' extraversion in sub-sample 1 is shown in Figure 1. The figure shows  
20  
21 that introverted peers clearly rate the performance of introverted actors higher than the  
22  
23 performance of extraverted actors, with no difference of rated performance related to the trait of  
24  
25 extraversion by extraverted peers. Simple slopes analysis for HLM (Preacher, Curran, & Bauer,  
26  
27 2006), represented in Table 2 shows that all three sub-sample slopes for introverted peers were  
28  
29 significant while the slopes for extraverted peers were not. Thus, Hypothesis 1a is supported.  
30  
31  
32  
33

34  
35 A graph of the interaction between peer extraversion and actor agreeableness in sub-  
36  
37 sample 1 is shown in Figure 2. The figure shows that extraverted peers are not significantly  
38  
39 influenced by the agreeableness of actors. In contrast, introverted peers rate the performance of  
40  
41 disagreeable actors as lower than that of agreeable actors. Simple slopes analysis in sub-sample 1  
42  
43 (Table 2) shows that the slope for introverted peers was significant while the slope for extraverts  
44  
45 was not significant. The same trends in the data were present in sub-samples 2 and 3; however,  
46  
47  
48

---

49  
50 <sup>3</sup> Because these analyses only account for independent dyads in a data set and the round-robin design employed  
51 in this study had non-independent dyads (i.e., A is a peer of B, C, and D) we divided the data set into three  
52 separate sub-samples (80 - 83 dyads) in which each dyad only appeared once (i.e., A with B and C with D).  
53 These data sets are not completely independent because they consist of the same participants. However, the  
54 dyads in these data sets are independent. Because our sample also contained groups of five individuals there  
55 were actually three more independent-pair data sets that could potentially be created and analyzed. However,  
56 the sample size of these additional data sets ranged in size from 9 to 19 and given methodological conventions  
57 pertaining to small samples they were deemed too small to be analyzed.  
58  
59  
60

1  
2  
3 here the slopes for introverted peers, as well as, the slopes for extraverted peers were also  
4 significant. These results suggest that all peers may prefer agreeable actors; however, the  
5 presence of an interaction effect and steeper simple slopes suggest that introverts are more  
6 reactive to the agreeableness of actors. Thus, H1b is supported.  
7  
8  
9  
10  
11

## 12 **STUDY 2**

### 13 **Sample and Procedure**

14  
15  
16  
17 Students enrolled in a management course at a large Southeastern university were asked  
18 to participate in a study aimed at investigating virtual work teams. Participation was on a  
19 voluntary basis and was rewarded with extra credit. One hundred forty three students  
20 participated with age ranging from 19 to 46 years old and a median age of 20. Fifty seven  
21 percent were female and 66.9% identified themselves as White, 4.9% African American, 19%  
22 Hispanic, 5.6% Asian, and 3.5% listed their race as 'other'. Participants were told that the study  
23 would consist of two separate parts: first, they would answer questions about their own  
24 personality via an on-line survey; secondly, they would be contacted and assigned to a four-  
25 member on-line team task about one week later.  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37

38  
39 In the first phase of the study participants completed a personality questionnaire and  
40 wrote a brief paragraph describing their own personality. About a week later participants were  
41 contacted via e-mail and were provided a link to the second part of the study. Once consent for  
42 participation was secured, participants were guided through (and confirmed) basic system  
43 requirements for the study, including enabled computer speakers or a headset, a functioning  
44 microphone, and sufficient uninterrupted time to take part in the study. Participants then selected  
45 an avatar (the image of one of four Monopoly pieces), and entered a username to represent them  
46 in the game.  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

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  
Participants were then provided with a personality profile of each of their assigned on-line teammates. These profiles included the players' usernames, chosen avatars, self-description personality paragraphs that were obtained a week earlier, and "unique personality profiles generated by the computer from their completed personality questionnaire that was answered a week earlier." Importantly, when participants viewed their own profiles, they were provided with scripted feedback on their own personality that was designed to be especially vague (i.e., neutral about actual traits) and which could be applied to virtually anyone (i.e., "You tend to live in the here and now but your work productivity is dependent on your mood"). Participants were instructed to pay close attention to the personality characteristics of the other three team members.

27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
In the next phase, participants entered the "Synergize!" game with their on-line teammates (see Figure 3). The goal of the game was to generate, as a team, as many highly creative uses for a brick as possible within a ten-minute time limit. During a turn, a specific player who was "holding the ball" was to enter a unique creative use for a brick. After his/her turn, this player clicked on another player's avatar to pass this team member an "electronic ball" (and it would consequently be that player's turn). Players were also given two options to interact with their on-line teammates. During their turn, entering the word 'chat' as their answer enabled a dialog box, in which players could send a text message to all of their team members. After the message was displayed, a textbox indicating it now was the player's turn to enter a creative use for brick appeared. Alternatively, players could enter the word 'talk', and use their computer or headset microphone to send a real-time voice message to all of their teammates. Each time a player entered an answer and passed the ball on to another team member, the on-screen score

1  
2  
3 was increased by one point. The score was unaffected by ‘chat’ and ‘talk’ options, and the game  
4  
5 ended after 10 minutes.  
6

7  
8 Finally, in the last phase, participants answered questions about their teammates.  
9  
10 Specifically, participants were told that, in the interest of time, each player would be asked to  
11  
12 rate only one other teammate. Upon completion of all four phases, participants were thanked for  
13  
14 their participation and debriefed.  
15

### 16 17 **Experimental Manipulations**

18  
19 Except for the participant, all players in the Synergize! game were electronic  
20  
21 confederates, designed to appear to be real participants<sup>4</sup>. The uses for a brick, spoken ‘talk’  
22  
23 comments, and written ‘chat’ comments were pre-scripted by the experimenters and provided  
24  
25 during the game in a sequence that resembled real play and spontaneous commentary. All  
26  
27 electronic confederates used colloquialisms, occasional misspellings or abbreviations, and  
28  
29 sometimes humorous answers to increase believability. In some communications, the electronic  
30  
31 confederates mentioned the actual player’s username or answers (e.g., “good job, \_\_\_!”, or “\_\_\_  
32  
33 isn’t very good at this”) to further facilitate believability. Response lags varied within-player to  
34  
35 simulate thinking time delays. All electronic confederates passed the ball at random to the other  
36  
37 players, indicating a realistic pattern of play. While confederates’ creative uses for a brick,  
38  
39 response times and number of comments were kept constant across conditions (holding objective  
40  
41 performance constant), the content of ‘chat’ comments, ‘talk’ statements, and personality profiles  
42  
43 of the target virtual confederate were varied to reflect the personality manipulation.  
44  
45  
46  
47  
48  
49

50  
51 Personality profiles of the confederates were manipulated in three ways: (a) the paragraph  
52  
53 description that participants “wrote” describing themselves (see Amabile, 1983 for a similar  
54

---

55  
56 <sup>4</sup> For example, a screen at the beginning of the study indicated how many other players were logging-on to the  
57  
58 system, and “thinking time” delays by the electronic confederates (based on real pilot players) varied  
59  
60 probabilistically across turns.

1  
2  
3 manipulation), (b) the “computer generated” profile based on the personality questionnaire  
4 participants “answered,”<sup>5</sup> and (c) the “chat” and “talk” comments during the game. Participants  
5  
6 were randomly assigned to one of four conditions in a between-subjects-design. In all four  
7  
8 conditions two of the three electronic confederates provided the same personality paragraphs  
9  
10 across conditions, with the self-describing paragraphs (i.e., “I rely a lot on my intuition and I am  
11  
12 very spontaneous,” and computer generated personality profiles (i.e., Efficient, Responsible,  
13  
14 Emotional. You are thorough and can be relied on to get the work done but sometimes you can  
15  
16 be touchy) specifically designed to describe vague or personality-imprecise characteristics and  
17  
18 avoid signaling clues to extraversion or agreeableness.  
19  
20  
21  
22  
23

24 We manipulated the personality profile of the third (target actor) confederate according to  
25 each condition, to describe an individual who was either highly: agreeable; disagreeable;  
26  
27 extraverted; or introverted. For example, a self-descriptor of the agreeable target confederate  
28  
29 consisted of statements such as “I hate confrontations and I prefer to collaborate with other  
30  
31 people rather than argue with them.” The computer generated statement for the agreeable target  
32  
33 was “Pleasant, Cooperative, Helpful. People tend to get along with you and trust you.” For a  
34  
35 disagreeable target we used statements such as “I am not really interested in other people’s  
36  
37 problems. I hate it when people are making excuses and I let people know when they are lazy or  
38  
39 incompetent.” The computer generated profile for the disagreeable target was “Abrupt,  
40  
41 Sarcastic, Impatient. You are quick to judge others and you tend to frequently lose your temper.”  
42  
43 Similarly, a self-descriptor of an extraverted target consisted of statements such as “I am an  
44  
45 outgoing person, I enjoy social activities and hanging out with lots of people” and “I really like  
46  
47  
48  
49  
50  
51  
52  
53  
54

---

55 <sup>5</sup> We conducted an additional study with two groups of participants ( $N_{\text{agreeableness}}=17$ ,  $N_{\text{disagreeableness}}=22$ ) in which we  
56 omitted the computer generated profile from the manipulations of agreeableness/disagreeableness. The results were  
57 identical to the results obtained with the computer profile included. Thus, in the reported results we retained this part  
58 of the manipulation.  
59  
60



1  
2  
3 to take charge and influence the way things get done.” The computer generated profile for the  
4  
5 extraverted target was “Friendly, Sociable, Dominant, Assertive. You think highly of yourself  
6  
7 and you would be a fierce opponent. You are someone to keep as a friend and avoid as an  
8  
9 enemy.” For the introverted target we used statements including “In general I am a quiet person  
10  
11 and do not like to draw attention to myself.” The computer generated profile for the introverted  
12  
13 confederate was “Shy, Quiet, Laid-back. You tend to keep in the background but you could be a  
14  
15 very good second in command.”<sup>6</sup>  
16  
17  
18

19  
20 During the game, all three virtual confederates used the ‘chat’ option, and two of the  
21  
22 confederates (including the target actor) used the ‘talk’ option. The manipulated confederate  
23  
24 (actor) made both spoken and written comments meant to support the personality profile  
25  
26 manipulation, which were designed to reflect behavioral manifestations of the corresponding  
27  
28 personality trait. For example, the extraverted version of the confederate exclaimed “I wish I  
29  
30 could meet and talk to you all personally!” but also “Hey \_\_\_\_\_, C’mon buddy, let’s go!” and  
31  
32 “\_\_\_\_\_, you need to come up with better ideas, pal.” In contrast, the introverted confederate  
33  
34 stated “It is kind of strange playing with total strangers,” and “I prefer not to say much... so  
35  
36 please don’t think I am being standoff-ish.” An agreeable confederate used comments such as  
37  
38 “Guys these are some great ideas you are coming up with” and “nice pass \_\_\_\_\_”, while the  
39  
40 disagreeable confederate commented “Would you pass the ball to me already?” and “C’mon  
41  
42 \_\_\_\_\_...while we are young.”  
43  
44  
45  
46  
47

48 The ‘talk’ responses for the manipulated conditions were recorded using the same voice  
49  
50 actor across conditions. The neutral ‘talk’ responses of one of the neutral confederates (added to  
51  
52 increase believability) were recorded by a second voice actor, and the messages were held  
53  
54 constant across conditions. The ‘chat’ and ‘talk’ responses occurred probabilistically across  
55  
56  
57

58 <sup>6</sup> The confederate self-descriptions and Inquisit syntax for “Synergize!” may be requested from the third author.  
59  
60

1  
2  
3 games, such that participants heard between three and five, and on average four ‘talk’ or ‘chat’  
4  
5 turns from the manipulated confederate, and between two and four from the neutral confederates,  
6  
7 during the game. On average, roughly half of the turns taken by the manipulated confederate  
8  
9 were without ‘chat’ or ‘talk’ commentary. Critically, the uses for a brick provided by the  
10  
11 manipulated confederate and response times did not vary across conditions, to hold objective  
12  
13 performance constant across conditions. That is, regardless of condition, the manipulated  
14  
15 confederate was equally effective at contributing to the team’s task performance. In the final  
16  
17 phase of the study, real participants were told that they would be randomly assigned to answer  
18  
19 questions about a single team member. Although the computer presented a short delay with a  
20  
21 message stating that it was “randomly choosing team member”, all participants were assigned to  
22  
23 answer questions about the manipulated confederate.  
24  
25  
26  
27  
28

29 Because of the possibility that participants might realize that the electronic confederates  
30  
31 were not real people, a naivety check was incorporated into the study design. After the task,  
32  
33 participants were told the plausible story that because all the participants came from the same  
34  
35 large management class there is a possibility that they had guessed whom the other team  
36  
37 members were, and this knowledge may affect the results of the study. They were then asked an  
38  
39 open-response question of “do you think you might know whom any of these other players are?”  
40  
41 Indicating that they don’t know who the team members are or writing names would suggest that  
42  
43 participants believed the other confederate players were real individuals (i.e., by not answering  
44  
45 “they’re virtual people”, “they’re not real”, or “they’re part of the study”). Data from participants  
46  
47 who suggested “virtual people”, “they’re bots” or other statements indicating their suspicions of  
48  
49 our use of confederates in this study in response to the naivety check (eight participants in total)  
50  
51 were discarded.  
52  
53  
54  
55  
56  
57  
58  
59  
60

## Measures

**Performance evaluations.** Performance evaluation of the confederate was rated by participants using the RBPS (Welbourne et al., 1998) scale ( $\alpha = 0.96$ ).

**Promotion recommendations.** Promotion recommendations were measured with six items adopted from Kiker and Motowidlo (1999). Participants were asked to imagine that they are managers and that their team members are their employees. They then had to make several promotion recommendation decisions about the manipulated confederate on a 7-point anchored scales (e.g., promotion suitability rated on 1 = totally unsuitable to 7 = extremely suitable anchored scale), whether to promote the confederate, and whether to recommend him/her for a fast-track development program ( $\alpha = .96$ ).

**Peer reward decisions.** To measure whether participants were willing to reward the manipulated confederate they were told that as a token of appreciation for students' participation in our study, and to the extent that we could afford with our limited budget for this study, we bought a number of gift cards from AMAZON worth \$5 each and that we intend to offer these to the participants. However, participants were told that because of the limited number of gift certificates we could not give each and every participant a gift card, but instead we would rely on team member recommendation for the decision of who should receive the gift. The decision rule was that for a participant to receive the gift certificate, it would require at least the recommendation by two team members. Participants were then asked to indicate which two of their three team members should receive the gift certificate. If the manipulated confederate received the gift certificate from the participant it was recorded as '1' otherwise it was recorded as '0.'

**Person impressions.** Person impressions were measured with 20 items from Anderson's

1  
2  
3 (1968) likability adjectives list. Anderson investigated a list of 555 traits that people may  
4  
5 attribute to others, ranked by their positivity. Of this list we chose the first 20 items representing  
6  
7 the most positive impressions people have about others, and are unrelated to agreeableness and  
8  
9 extraversion. We reasoned that constructed impressions of positivity/negativity based upon  
10  
11 inferred traits best represent the conceptualization of general “person impressions” by Srull and  
12  
13 Wyer (1989). Participants indicated whether adjectives such as “sincere,” “honest,”  
14  
15 “trustworthy,” and “intelligent,” described the manipulated confederate on a 1 = *Very inaccurate*  
16  
17 to 5 = *Very accurate* scale ( $\alpha = 0.92$ ).  
18  
19

20  
21  
22 ***Trait sensitivity.*** Strictly speaking there is no objective score of the confederate  
23  
24 “extraversion” or “agreeableness” to which we could compare the sensitivity of introverted and  
25  
26 extraverted participants to the confederate traits. However, the manipulation of the confederate  
27  
28 traits were rather strong involving self-description, “computer generated profile,” and behaviors.  
29  
30 Thus, the confederate could be perceived as a “prototypical” example of an extravert or an  
31  
32 agreeable person. Accordingly, the higher score a participant gave to the confederate on  
33  
34 measures of extraversion and agreeableness the more “sensitive” they could be perceived to be to  
35  
36 this trait. We measured participants’ sensitivity to the confederate’s extraversion by asking the  
37  
38 participant to indicate whether the 12 adjectives of the Saucier (1994) scale described the  
39  
40 manipulated confederate on a 1 = *Very inaccurate* to 5 = *Very accurate* scale. Example items  
41  
42 included “talkative,” “assertive,” “verbal,” “energetic,” and “shy” (reversed). Coefficient alpha  
43  
44 reliability estimate was  $\alpha = 0.96$ . Similarly, we measured participants’ sensitivity to the  
45  
46 confederate’s agreeableness by asking the participant to indicate whether the 12 adjectives of the  
47  
48 Saucier (1994) scale described the manipulated confederate on a 1 = *Very inaccurate* to 5 = *Very*  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 accurate scale. Example items included “kind,” “cooperative,” “warm,” “pleasant,” and “harsh”  
4  
5  
6 (reversed). Coefficient alpha reliability estimate was  $\alpha = 0.97$ .  
7

8 **Peer’s extraversion.** Extraversion of the actual participants was measured with John and  
9  
10 Srivastava’s (1999) big five personality scale ( $\alpha = 0.91$ ). The 8 item scale asked participants to  
11  
12 respond to statements such as “I am outgoing and sociable” on a five-point response scale (1 =  
13  
14 *strongly disagree* to 5 = *strongly agree*).  
15  
16

## 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

STUDY 2 RESULTS

Table 3 presents means, standard deviations, and inter-correlations of study variables.

### Extraversion Condition

**Manipulation checks.** We conducted a one-way analysis of variance (ANOVA) with  
manipulated confederate extraversion as the independent variable on the dependent variable of a  
brief manipulation check scale using three items from the Big Five Inventory (BFI) of John,  
Donahue, and Kentle (1991). Participants indicated on a scale ranging from 1=*Strongly Disagree*  
to 7=*Strongly Agree* whether the confederate was “talkative,” “assertive,” “shy or inhibited”  
(reversed). The coefficient alpha reliability estimate was  $\alpha = 0.82$ . Results indicated that  
manipulated extraversion significantly influenced participants' ratings ( $M_{\text{introvert}} = 2.48$ ,  $SD_{\text{introvert}}$   
 $= 1.15$ ;  $M_{\text{extravert}} = 4.51$ ,  $SD_{\text{extravert}} = 1.43$ ;  $F(1, 65) = 39.20$ ,  $p < .01$ ). Thus, results confirmed the  
manipulation validity.

**Interaction of peer extraversion and actor extraversion on performance evaluations,  
promotions, and reward giving.** To test the hypothesis that actor (confederate) extraversion  
interacted with peer (participant) extraversion to influence performance evaluations of and

1  
2  
3 promotion recommendations given to the confederate, we conducted a two-way MANOVA<sup>7</sup> with  
4 performance evaluations and promotion recommendations as the dependent variables with  
5  
6 factors of the manipulated confederate's extraversion and the participant's extraversion (split at  
7  
8 the mean). Results suggested that the main effect of participant extraversion was not significant,  
9  
10 Multivariate  $F(2, 61) = .61, ns$ , but that the main effect of manipulated virtual confederate  
11  
12 extraversion was significant, Multivariate  $F(2, 61) = 3.86, p < .05, \eta^2 = .11$ . However, this main  
13  
14 effect was qualified by a significant interaction, Multivariate  $F(2, 60) = 4.68, p < .05, \eta^2 = .13$ .

15  
16 ANOVA results showed a significant interaction effect ( $F(1, 61) = 7.21, p < .01$ ) such that  
17  
18 introverted participants evaluated the performance of introverted confederates ( $M_{\text{introverted}} = 3.48$ ,  
19  
20  $SD_{\text{introverted}} = .77$ ) as higher ( $F(1, 28) = 12.41, p < .01$ ) than the performance of extraverted  
21  
22 confederates ( $M_{\text{extraverted}} = 2.36, SD_{\text{extraverted}} = .95$ ), while the extraversion level of the confederate  
23  
24 did not make a difference to extraverted participants ( $M_{\text{introverted}} = 2.92, SD_{\text{introverted}} = .81$ ;  
25  
26  $M_{\text{extraverted}} = 2.98, SD_{\text{extraverted}} = .56; F(1, 34) = .05, ns$ ) (importantly, objective performance of the  
27  
28 confederate was held constant across conditions). Similar results were found for promotion  
29  
30 recommendations given about the confederate. ANOVA results showed a significant interaction  
31  
32 effect ( $F(1, 61) = 5.63, p < .05$ ) such that introverted participants gave more positive promotion  
33  
34 recommendations ( $F(1, 38) = 44.98, p < .01$ ) to the introverted confederate ( $M_{\text{introverted}} = 4.40$ ,  
35  
36  $SD_{\text{introverted}} = 1.40$ ) than to the extraverted confederate ( $M_{\text{extraverted}} = 2.53, SD_{\text{extraverted}} = 1.38$ ); the  
37  
38 extraversion level of the confederate did not influence extraverted participants' promotion  
39  
40 recommendations ( $M_{\text{introverted}} = 3.20, SD_{\text{introverted}} = 1.35; M_{\text{extraverted}} = 3.28, SD_{\text{extraverted}} = 1.37; F(1, 34)$   
41  
42  $= .03, ns$ ). We note that a lack of difference in ratings made by extraverted peers rules out the  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55

56  
57 <sup>7</sup> All the AVOVA results in this section were conducted with Type II sums of squares which are recommended for  
58 unbalanced data (Langsrud, 2003).  
59  
60

1  
2  
3 alternative explanations of homophily (preference for those that share the same trait level) and  
4  
5  
6 complementarity (preference for those with the opposite trait level).  
7

8  
9 With regard to rewarding the confederate the results of a logistic regression showed that  
10  
11 the effect of participant extraversion was not significant ( $B = -.50, ns$ ) and neither was the effect  
12  
13 of manipulated virtual confederate extraversion ( $B = -.86, ns$ ). However, the effect of the  
14  
15 interaction was significant ( $B = .55, p < .05$ ). An odds-ratio of 5.78 ( $B = 1.75, p < .05$ ) suggests  
16  
17 that introverts were almost six times as likely to reward the introverted confederate in  
18  
19 comparison to the extraverted confederate. In contrast, extraverts were not different in their  
20  
21 rewards patterns of extraverts and introverts ( $B = -.55, ns, \text{Odd-ratio} = .58$ ). Thus, H1a  
22  
23 (extraversion) is supported<sup>8</sup>.  
24  
25  
26

27 ***Mediated moderation effects of person impressions and rating of extraversion.*** To test  
28  
29 for mediation effects we conducted two mediated moderation regression analyses for each  
30  
31 dependent variable, using a bootstrap approach with 3,000 iterations (see Preacher, Rucker, &  
32  
33 Hayes, 2007). Table 4 shows that when the mediating variables were included in a regression  
34  
35 with performance evaluations, promotions, and rewards as the dependent variables the  
36  
37 coefficients of person impressions were significant. Conditional indirect effects between actor  
38  
39 extraversion and performance evaluations through person impressions showed a significant  
40  
41 indirect effect ( $b = -.44, p < .05$ ) for introverted participants. Similarly, conditional indirect  
42  
43 effects between confederate extraversion and promotion recommendations and peer reward  
44  
45 decisions through person impressions also showed significant indirect effects ( $b_{promotions} = -.50, p$   
46  
47  
48  
49  
50  
51

---

52  
53 <sup>8</sup> An alternative explanation to the results described in this section is that they all simply represent liking of the  
54  
55 confederate. To address this alternative option we ran a series of regressions in which each dependent variable was  
56  
57 regressed on peer's extraversion, the manipulated extraversion, and the interaction term. In each regression we also  
58  
59 controlled for liking of the confederate which was measured using the Allen and Rush's (1998) adapted version of  
60  
the Wayne and Ferris (1990) liking measure ( $\alpha = 0.95$ ). The results showed that adding liking as a control did not  
significantly change any of the results.

1  
2  
3 < .05;  $b_{reward} = -.26, p < .05$ ) for introverted participants. In contrast, the indirect effect through  
4  
5 person impressions for extraverted participants was not significant for any of the dependent  
6  
7 variables. Thus, hypothesis 3a was supported. Trait sensitivity was only a significant mediator of  
8  
9 promotion recommendations but not of performance evaluation or reward decisions. The  
10  
11 conditional indirect effects between confederate extraversion and promotion recommendations  
12  
13 through trait sensitivity showed a significant indirect effect ( $b = -.74, p < .05$ ) for introverted  
14  
15 participants but not for extraverted participants. Thus, hypothesis 2a was partially supported.  
16  
17  
18  
19

### 20 **Agreeableness Condition**

21  
22 *Manipulation checks.* To determine whether our experimental manipulations created the  
23  
24 intended conditions for the study, we conducted a one-way analysis of variance (ANOVA) with  
25  
26 the experimental manipulation of confederate agreeableness as the independent variable.  
27  
28 Participants indicated on three items from John et al.'s (1991) BFI scale ranging from 1 =  
29  
30 *Strongly Disagree* to 7 = *Strongly Agree* whether the confederate "liked to cooperate," "was  
31  
32 helpful and unselfish with others," "starts quarrels with others" (reversed). The coefficient alpha  
33  
34 reliability estimate was  $\alpha = 0.85$ . The results indicated that manipulated agreeableness  
35  
36 significantly influenced participants' ratings ( $M_{agreeable} = 5.84, SD_{agreeable} = 1.04; M_{disagreeable} = 2.31,$   
37  
38  $SD_{disagreeable} = 1.09; F(1, 67) = 188.25, p < .01$ ). Thus, the results confirmed the expected  
39  
40 manipulation effects.  
41  
42  
43  
44  
45

46  
47 *Effects of actor agreeableness and peer extraversion on performance evaluations,*  
48  
49 *promotion recommendations, and rewards.* To test hypothesis 1b that confederate agreeableness  
50  
51 interacted with participant's extraversion to influence evaluations of performance and  
52  
53 promotions given to the confederate, we conducted a two-way MANOVA with dependent  
54  
55 measures of evaluations and promotion and factors of confederate agreeableness and  
56  
57  
58  
59  
60



1  
2  
3 participant's extraversion (split at the mean). The main effect of participant extraversion was not  
4  
5 significant, Multivariate  $F(2, 64) = 1.79$ . In contrast, the MANOVA results suggested that the  
6  
7 main effect of the manipulated virtual confederate's agreeableness was significant, Multivariate  
8  
9  $F(2, 64) = 57.68, p < .01, \eta^2 = .64$ . However, this main effects was qualified by a significant  
10  
11 interaction, Multivariate  $F(2, 64) = 4.22, p < .01, \eta^2 = .11$ .  
12  
13  
14

15 ANOVA results of performance evaluations showed a significant interaction effect ( $F(1,$   
16  
17  $65) = 8.46, p < .01$ ). Introverted participants evaluated the performance of agreeable confederates  
18  
19 ( $M_{\text{agreeable}} = 4.19, SD_{\text{agreeable}} = .47$ ) as higher ( $F(1, 38) = 158.43, p < .01$ ) than the performance of  
20  
21 disagreeable confederates ( $M_{\text{disagreeable}} = 2.12, SD_{\text{disagreeable}} = .57$ ). While extraverted participants  
22  
23 also evaluated the performance of the agreeable confederate ( $M_{\text{agreeable}} = 3.98, SD_{\text{agreeable}} = .83$ ) as  
24  
25 higher than the performance of the disagreeable confederate ( $M_{\text{disagreeable}} = 2.80, SD_{\text{disagreeable}} =$   
26  
27  $.63$ ) this difference was less pronounced ( $F(1, 27) = 17.67, p < .01$ ). With regard to promotion  
28  
29 recommendations, ANOVA results showed a significant interaction effect ( $F(1, 65) = 4.10, p <$   
30  
31  $.05$ ) in that introverted participants gave more positive promotion recommendations ( $F(1, 38) =$   
32  
33  $98.14, p < .01$ ) to the agreeable confederate ( $M_{\text{agreeable}} = 5.07, SD_{\text{agreeable}} = .98$ ) than to the  
34  
35 disagreeable confederate ( $M_{\text{disagreeable}} = 1.94, SD_{\text{disagreeable}} = 1.02$ ). Here again, while extraverted  
36  
37 participants also gave more positive promotion recommendations to the agreeable confederate  
38  
39 ( $M_{\text{agreeable}} = 5.02, SD_{\text{agreeable}} = 1.48$ ) than to the disagreeable confederate ( $M_{\text{disagreeable}} = 3.13,$   
40  
41  $SD_{\text{disagreeable}} = 1.63$ ) this difference was also less pronounced ( $F(1, 27) = 10.71, p < .01$ ).  
42  
43  
44  
45  
46  
47  
48

49 With regard to rewarding the confederate, the results of a logistic regression showed that  
50  
51 the effect of participant extraversion was not significant ( $B = -.97, ns$ ) but the effect of the  
52  
53 manipulated virtual confederate agreeableness was significant ( $B = 4.12, p < .01$ ). In addition,  
54  
55 the effect of the interaction was significant ( $B = 1.02, p < .01$ ). The results suggested that  
56  
57  
58  
59  
60

1  
2  
3 introverts were much more likely ( $\chi^2 = 32.67, p < .01$ ) to give the reward to the agreeable  
4 confederate (21 out of 21 possible rewards)<sup>9</sup> than they gave to the disagreeable confederate (2  
5 out of 19 possible rewards). In contrast, extraverted participants were not more likely ( $\chi^2 = 2.66,$   
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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

ns) to give the rewards to the agreeable confederate (11 out of 16 possible rewards) than the disagreeable confederate (5 out of possible 13 rewards).

***Mediated moderation effects of person impressions and trait sensitivity.*** To test whether person impressions and trait sensitivity mediated the relationship between participant's extraversion, confederate agreeableness, and their interaction on performance evaluations, promotion, and reward decisions, we conducted two mediated moderation regression analyses for each dependent variable, using a bootstrap approach with 3,000 iterations (see Preacher et al., 2007). Table 5 shows that when the mediating variable was included in a regression with performance evaluations, promotions or reward as the dependent variable both the coefficients of person impressions and trait sensitivity were significant. Thus, it seems that person impressions and trait sensitivity both mediated the relationship between confederate agreeableness and the three dependent variables. Thus, both hypothesis 2b and 3b were supported. Conditional indirect effects between confederate agreeableness and performance evaluations through person impressions and trait sensitivity showed a significant indirect effect (*person impressions*:  $b = -1.33, p < .01$ ; *trait sensitivity*:  $b = -1.47, p < .01$ ) for introverted participants. Similar results were found for extraverted participants (*person impressions*:  $b = -.62, p < .01$ ; *trait sensitivity*:  $b = -1.01, p < .01$ ) but the magnitude of these effects were significantly smaller. The same pattern of results was obtained with regard to promotions and reward as the dependent variables. Table 5 shows that the indirect effects from confederate agreeableness to promotions and rewards through person impression and trait sensitivity were significant for both introverts and extraverts.

---

<sup>9</sup> Odd-ratio could not be calculated because this cell had only 1s and no zero.

1  
2  
3 However, in all cases the magnitudes of these indirect effects were stronger for introverts than  
4 they were for extraverts.  
5  
6

## 7 8 **DISCUSSION** 9

10 Do introverted individuals experience and evaluate dyadic work relationships differently  
11 than extraverts? In a field study using enduring teams and an experimental study with controlled  
12 electronic confederates, we demonstrate that introverted (but not extraverted) peers show  
13 heightened sensitivity to the interpersonal traits (i.e., agreeableness and extraversion) of others.  
14 Introverted (but not extraverted) peers evaluated the performance of their disagreeable and  
15 extraverted team members significantly more negatively and offered them less rewards than they  
16 did for their agreeable and introverted team members. Further, this systematic effect on  
17 performance evaluation was replicated even when objective performance was held constant, by  
18 the virtue of the attention that individuals devote to observing others' traits and as a function of  
19 the more negative person impressions constructed by introverted peers. Taken together, the  
20 results of our studies offer meaningful theoretical contributions to literatures on dyadic  
21 workplace interactions, personality in organizations, and accuracy in performance appraisal.  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37

### 38 **Theoretical contributions** 39

40 Our research first contributes to theory on dyadic workplace interactions. Krasikova and  
41 LeBreton (2012) have recently argued that a significant misalignment exists between theory and  
42 method in our study of dyadic phenomena, wherein researchers fail to capture the interactive  
43 contributions of each partner and the emergent effects which arise between them. Accordingly,  
44 we demonstrate that the negative effects of one's presence on others can actually vary as a  
45 function of the observer's own traits. Specifically, while extraverts may not find the  
46 interpersonal traits of others aversive, introverts appear vulnerable to experiencing heightened  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 negative affectivity in the presence of extraverted and disagreeable others. We suggest that other  
4  
5 “emergent profiles” of interpersonal aversion may exist, which are largely hidden due to  
6  
7 contingency effects of the traits of the observer.  
8  
9

10         Second, we note that our results appear to complicate an existing body of research on  
11  
12 complementarity effects which suggests that one should prefer interaction partners whose  
13  
14 interpersonal style compliments (as opposed to mimics) one’s own. Those who are submissive,  
15  
16 for example, would prefer interaction partners who would take charge. Conversely, those who  
17  
18 are dominant would prefer interaction partners who would cooperate and even submit to their  
19  
20 wishes (Grant et al., 2011; Kiesler, 1983; Moskowitz, 2009; Tiedens & Fragale, 2003). However,  
21  
22 these apparent inconsistencies may be due to several meaningful factors. Because status  
23  
24 moderates complementarity relationships (Moskowitz, Ho, & Turcotte-Tremblay, 2007), we find  
25  
26 that dominant traits can actually negatively affect more submissive individuals in more lateral  
27  
28 peer relationships (where dominating behaviors may be viewed as less legitimate). And, while  
29  
30 prior work has shown that extraverts are generally perceived as having greater positive impact on  
31  
32 team performance, this work does not focus on the personality of the raters themselves (Barry &  
33  
34 Stewart, 1997) or only complementarity with respect to the average extraversion of the entire  
35  
36 team (and consequent attraction to the team unit) rather than dyadic peers (Kristof-Brown,  
37  
38 Barrick & Stevens, 2005). Future research should explore with greater granularity the boundary  
39  
40 conditions of complementarity while considering dyadic composition and features of the team  
41  
42 context simultaneously. Our findings tentatively suggest that *dyadic* dominance complementarity  
43  
44 effects may be limited to hierarchical (supervisor/subordinate) relationships, such that  
45  
46 dominance behavior may actually be penalized by introverted peers working within self-  
47  
48 managed teams, peer-to-peer interactions, or other lateral work arrangements. We suggest that  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 similar effects might be found in other lateral dyads, including customer-provider relationships.  
4

5         Additionally, our research contributes directly to personality research. Extant studies  
6 have shown heightened sensitivity of introverts to external stimuli (e.g., Barnes, 1975; Haier,  
7 Robinson, Braden, & Williams, 1984; Schalling, 1971) and slower habituation and adaptation to  
8 aversive stimuli (Eysenck, 1957). Our studies are the first we know of to extend this general  
9 effect to include sensitivity to the traits of other human beings, which opens new opportunities  
10 for understanding how Big 5 traits drive our experience and interpretations of other people.  
11  
12  
13  
14  
15  
16  
17  
18

19         Moreover, our studies demonstrate that introverts appear to attend to different  
20 information when constructing person impressions than extraverts do. Due to a preference for  
21 relational outcomes in groups and greater aversion to those who might disrupt social harmony  
22 within interdependent contexts, introverts are more likely to pay additional attention to the  
23 interpersonal traits of their team members. Because accurately judging traits in others requires  
24 the careful deployment of cognitive resources (Funder, 1995) person judgments are necessarily  
25 incomplete pictures of what an individual is “really like” (Srull & Wyer, 1989). Accordingly, by  
26 demonstrating that introverts show heightened sensitivity to interpersonal traits of others, we  
27 generate important new questions about what trait information is potentially overlooked in the  
28 process. These findings also suggest that other systematic differences in how peers construct  
29 person judgments of others as a function of personality traits should be explored.  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44

45         Finally, our research has important implications for theories of performance assessment  
46 and ratings (Wherry & Bartlett, 1982). While performance evaluations are often used as a  
47 criterion measure in management (Borman, White, & Dorsey, 1995) few studies to date have  
48 investigated the interactional effects of the characteristics of the observer of performance (i.e.,  
49 supervisor, peer) with the characteristics of the actor. First, our results (Study 1) show that when  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 partitioning the variance of performance evaluation to its components, the variance accounted by  
4  
5 the ratee (13%) is half of the magnitude of the variance accounted by the rater (26%) and about a  
6  
7 third of the variance accounted by the relationship (36%) between the two parties. Assuming  
8  
9 such results generalize to other studies, our research demonstrates that potential sources of bias  
10  
11 may be “hidden” as emergent properties of dyadic interactions. Whereas rater effects leading to  
12  
13 variance in evaluations are frequently described as “bias,” we uncover the possibly more  
14  
15 influential effects driven by characteristics that live not within the observer or the actor, but as an  
16  
17 emergent property of the dyad itself. We believe that such an “emergent dyadic source of bias”  
18  
19 approach may very well be useful in considering non-personality domains of performance  
20  
21 appraisal. For instance, while traditional approaches to studying race and gender bias in the  
22  
23 workplace tend to examine characteristics of the rater including implicit bias (Hekman et al.,  
24  
25 2010), an examination of bias as emergent dyadic property might better explain why some  
26  
27 female and minority candidates still thrive in a presumably biased environment (i.e., a potential  
28  
29 immunity effect based upon not triggering the biases of raters).  
30  
31  
32  
33  
34  
35

36  
37 Second, because we held objective performance constant in Study 2 (and manipulated  
38  
39 only performance irrelevant trait expressions), we demonstrate that some source of influence  
40  
41 unrelated to individual performance infiltrates evaluations of disagreeable and extroverted others  
42  
43 made by introverted peers. At a minimum, these findings suggest that introverts differentially  
44  
45 attend to the interpersonal aspects of performance, and less to the instrumental outcomes  
46  
47 associated with individual task performance. Whereas we suggest that this variance meets the  
48  
49 strict definition of bias described in rating theory (Wherry & Bartlett, 1982), we believe the  
50  
51 implications may be more profound. As workplaces become increasingly interdependent and  
52  
53 collaborative (Ilgen & Pulakos, 1999), the notion of individual task performance within  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 interdependent settings may be simplistic. By including evaluations of interpersonal behavior in  
4 performance ratings, introverts may simply be accounting for the negative impact disagreeable  
5 and dominant team members may have on the performance of others (Porath & Erez, 2007). As  
6 the philosopher Jean-Paul Sartre noted, “Hell is other people,” in that there is no objective reality  
7 of ourselves in the absence of how others view us--this logic may hold especially true for what it  
8 means to perform as an individual within interdependent settings.  
9

### 10 11 12 13 14 15 16 17 18 **Limitations and directions for future research**

19  
20 Our studies are necessarily limited by our ability to tap hidden psychological processes  
21 and consider plausible moderating circumstances. First, while objective performance (number  
22 and quality of responses by the confederate) and performance-relevant behavior (time spent  
23 thinking and “chatting” with other players) was held constant across conditions in Study 2,  
24 performance is a multi-dimensional construct. Accordingly, the penalty assigned in performance  
25 evaluations and rewards and promotions given as a function of agreeableness and extraversion  
26 may not necessarily represent “bias” in appraisal. Because teamwork is necessarily  
27 interdependent, extraverted and disagreeable behaviors including interpersonal rudeness (Porath  
28 & Erez, 2007) that may have a negative impact on the performance and creativity of others can  
29 be viewed as counterproductive behavior. Thus, the sensitivity of introverted peers may actually  
30 represent detection of behaviors which are anticipated to hurt collective (but not individual)  
31 performance. Thus, introverts may actually be evaluating the performance of disagreeable and  
32 extraverted actors more holistically, and not less accurately. Future research should examine  
33 whether introverts are making more accurate judgments of *performance*, or simply more accurate  
34 judgments of *personality* which then influence their interpretations of performance (including the  
35 criteria they choose to focus on). Specifically, future research might build upon our findings  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 using performance tasks specifically designed to capture memory processes typically involved in  
4  
5 appraisal bias, including memory sensitivity (Pr) and decision criterion (Br; see Martell &  
6  
7 Leavitt, 2002).  
8  
9

10 Second, our study focused on dyadic pairs within team work encounters. While dyads are  
11  
12 the primary unit of workplace interaction (Kenny et al., 2006), a controlled dyadic study design  
13  
14 does not allow for organically occurring team behaviors transpiring outside of the dyadic  
15  
16 interaction, which may attenuate the effects we have found. For example, additional team  
17  
18 members might serve to buffer introverted observers from the negative interpersonal qualities of  
19  
20 extraverted and disagreeable team members by serving as intermediaries, actively managing such  
21  
22 relationships for the benefit of the team or encouraging introverted peers to re-construe facets of  
23  
24 extraversion and agreeableness (e.g., “she’s not aggressive; she’s passionate!”).  
25  
26  
27  
28

29 Third, our design (Study 2) did not allow for testing a three-way interaction of observing  
30  
31 peer introversion with both agreeableness and extraversion of the actor, as effectively  
32  
33 manipulating both traits within a single virtual confederate and a limited encounter time would  
34  
35 be nearly impossible. We believe that such a three-way interaction is unlikely, as introverted  
36  
37 peers responded unfavorably to both disagreeableness and extroversion on the part of others; it is  
38  
39 unlikely that the expression of both traits would somehow attenuate the effect. Nonetheless,  
40  
41 future research should more specifically tease out the subtle differences in how introverted peers  
42  
43 process trait information for agreeableness and extraversion.  
44  
45  
46  
47

48 Relatedly, the necessarily limited social encounter within Study 2 required coarse and  
49  
50 salient manipulations of personality—while this experimental design allowed us to test for causal  
51  
52 and mediating mechanisms of our effects, it also generated limitations. First, our effects may  
53  
54 have been amplified by our specific instructions telling participants to pay attention to  
55  
56  
57  
58  
59  
60



1  
2  
3 personality. Thus, a focus on interpersonal traits early in acquaintanceship might actually have  
4 encouraged participants to over-rely on the negative stereotypical aspects of extraversion.  
5  
6  
7  
8 Second, because of the limited interaction time our manipulation relied partly on self-  
9 descriptions of traits to make subsequent behaviors more salient. Future research using extended  
10 interactions might rely on manipulations and manipulation checks of trait-consistent behavior  
11 (rather than descriptions of traits) to explore how person impression formation might be affected  
12 when participants are given a less clear framework for identifying the traits of others. Finally,  
13 our limited interaction design required us to describe the introverted confederate partly through  
14 shyness, which may signal underlying neuroticism (social anxiety) in addition introversion.  
15  
16  
17  
18 However, we note that despite these necessary limitations of the experimental design, the general  
19 findings of Study 2 are parallel to those from the more naturalistic setting of Study 1. Moreover,  
20 the presence of an interaction effect in the absence of a main effect (i.e., differential ratings only  
21 appear for an extraverted confederate rated by more introverted participants) suggests that our  
22 effects are not likely driven by heavy-handed features of the manipulation (which would likely  
23 effect both introverted and extraverted participants similarly).  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38

39 Finally, the majority of individuals are neither deeply introverted nor extraverted (Grant,  
40 2013) but our experimental design used clear and perhaps extreme manipulation of extraversion.  
41  
42 Although our first study, in which we found the same effects as in our experimental study,  
43 measured introversion/extraversion using a continuous scale, future research should explore and  
44 specify threshold points at which individuals become negatively affected by those around them.  
45  
46  
47  
48  
49

### 50 **Implications for practice and organizations**

51  
52  
53 Our research offers practical insights for both employees and organizations. First,  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 individuals high in extraversion and disagreeableness should be made aware that their trait-  
4 relevant behaviors may have a profoundly negative impact on how introverted individuals  
5  
6 experience their dyadic encounters, and may lead to reduced performance evaluation or rewards  
7  
8 giving for collective accomplishments. Second, while loyalty to companies may be disappearing  
9  
10 in the modern workplace, loyalty to colleagues is not (Cascio, 2003). Individuals may work hard  
11  
12 because they do not want to let their peers or supervisors down, and may stay in the organization  
13  
14 just because they do not want to avoid separation from liked colleagues. To engender worker  
15  
16 commitment, organizations often build social ties through informal events or Friday-afternoon  
17  
18 socials in hopes of creating community within the organization (Cascio, 2003). Our results  
19  
20 suggest that considering the personalities of people in the workplace may also affect  
21  
22 commitment to the organization by affecting the satisfaction of individuals with their colleagues,  
23  
24 and that events designed to increase cohesion through social encounters may have the opposite  
25  
26 effect for certain dyadic combinations. Managers should consider constructing dyadic work  
27  
28 encounters in ways which promote positive and limited exposure to interpersonal traits which  
29  
30 may overwhelm introverts.  
31  
32  
33  
34  
35  
36  
37

38  
39 Finally, the modern workplace is becoming increasingly interpersonally demanding of its  
40  
41 workforce as it is characterized by little privacy (Jungck & Rahman, 2011), frequent teamwork  
42  
43 (Ilgen 1999) and abundant meetings (Rogelberg, Allen, Shanock, Scott, & Shuffler, 2010). These  
44  
45 work arrangements require employees to continuously see, overhear and interact with their  
46  
47 colleagues. Such a work design is likely to overstimulate introverted employees, while  
48  
49 extraverted employees may contribute more than their share of the stimulation. Hence,  
50  
51 organizations may consider ways to limit the amount of interpersonal exposure introverts are  
52  
53 asked to take in. Indeed, a recent Wallstreet Journal article reports that, specifically, to help  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 introverts, office furniture makers now build “quiet spaces” that are designed to help introverts  
4 relax and get away from stimuli that overwhelm them (Feintzeig, 2014). These “quite spaces” for  
5  
6 introverts may also indirectly help extraverts, given that introverts’ discomfort with extraverts  
7  
8 may be expressed in the performance appraisals of and reward giving to their extraverted  
9  
10 counterparts.  
11  
12

### 13 **Conclusions.**

14  
15  
16  
17 As more organizations rely on flatter, self-managed team structures over traditional  
18 hierarchies (Humphrey, Hollenbeck, Meyer, & Ilgen, 2007), peer evaluation has become  
19  
20 increasingly influential in determining key career and reward outcomes within organizations  
21  
22 (Antonioni, 1996). While research to date has identified rater personality characteristics which  
23  
24 may lead to leniency in appraisal (Bernardin, Cooke, & Villanova, 2000), our studies are the first  
25  
26 we know of to demonstrate the interaction of rater/target characteristics creating potential  
27  
28 sources of rating effects. Our findings allow both a note of caution about peer ratings, and the  
29  
30 practical advice that actor-peer effects should be actively monitored and corrected for in formal  
31  
32 appraisal and promotion and rewards decisions. In conclusion, we show that dyadic interactions  
33  
34 between coworkers’ personalities have significant emergent influences on the way employees  
35  
36 experience and evaluate their coworkers. We hope that these results will help further shift the  
37  
38 conversation in the study of organizational life from the asocial absolute to the inherently  
39  
40 relational.  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

## REFERENCES

- 1  
2  
3  
4  
5  
6 Allen, T. D., & Rush, M. C. 1998. The effects of organizational citizenship behavior on  
7 performance judgments: a field study and a laboratory experiment. *Journal of Applied*  
8 *Psychology*, 83, 247.  
9
- 10 Amabile, T. M. 1983. Brilliant but cruel: Perceptions of negative evaluators. *Journal of*  
11 *Experimental Social Psychology*, 19, 146-156.  
12
- 13 Ambady, N., Hallahan, M., & Rosenthal, R. 1995. On judging and being judged accurately in  
14 zero-acquaintance situations. *Journal of Personality and Social Psychology*, 69, 518.  
15  
16
- 17 Ames, D. R. 2008. In Search of the Right Touch Interpersonal Assertiveness in Organizational  
18 Life. *Current Directions in Psychological Science*, 17, 381-385.  
19
- 20 Ames, D. R., & Bianchi, E. C. 2008. The agreeableness asymmetry in first impressions:  
21 Perceivers' impulse to (mis) judge agreeableness and how it is moderated by  
22 power. *Personality and Social Psychology Bulletin*, 34: 1719-1736.  
23  
24
- 25 Ames, D. R., & Flynn, F. J. 2007. What breaks a leader: the curvilinear relation between  
26 assertiveness and leadership. *Journal of Personality and Social Psychology*, 92, 307.  
27  
28
- 29 Anderson, N. H. 1968. Likableness ratings of 555 personality-trait words. *Journal of*  
30 *Personality and Social Psychology*, 9: 272-279.  
31  
32
- 33 Anderson, N. H., & Lampel, A. K. 1965. Effect of context on ratings of personality traits.  
34 *Psychonomic Science*.  
35
- 36 Antonioni, D. 1996. Designing an effective 360-degree appraisal feedback process.  
37 *Organizational Dynamics*, 25: 24-38.  
38  
39
- 40 Aron, E. N., & Aron, A. 1997. Sensory-processing sensitivity and its relation to introversion and  
41 emotionality. *Journal of Personality and Social Psychology*, 73: 345-368.  
42  
43
- 44 Bakker, A. B., & Xanthopoulou, D. 2009. The crossover of daily work engagement: Test of an  
45 actor-peer interdependence model. *Journal of Applied Psychology*, 94: 1562-1571.  
46
- 47 Bargh, J. A., Bond, R. N., Lombardi, W. J., & Tota, M. E. 1986. The additive nature of chronic  
48 and temporary sources of construct accessibility. *Journal of Personality and Social*  
49 *Psychology*: 50, 869-878.  
50  
51
- 52 Barnes, G. 1975. Extraversion and pain. *British Journal of Social and Clinical Psychology*, 14:  
53 303-308.  
54  
55  
56  
57  
58  
59  
60

- 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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60
- Barrick, M. R., Mount, M. K., & Judge, T. A. 2001. Personality and performance at the beginning of the new millennium: What do we know and where do we go next? *International Journal of Selection & Assessment*, 9: 9-30.
- Barry, B., & Stewart, G. L. 1997. Composition, process, and performance in self-managed groups: The role of personality. *Journal of Applied Psychology*, 82, 62-78.
- Bendersky, C., & Shah, N. P. 2013. The downfall of extraverts and rise of neurotics: The dynamic process of status allocation in task groups. *Academy of Management Journal*, 56, 387-406.
- Bernardin, H. J., Cooke, D. K., & Villanova, P. 2000. Conscientiousness and agreeableness as predictors of rating leniency. *Journal of Applied Psychology*, 85: 232-236.
- Blickle, G. 1997. Argumentativeness and the facets of the big five. *Psychological Reports*, 81: 1379-1385.
- Bono, J. E., Boles, T. L., Judge, T. A., & Lauver, K. J. 2002. The role of personality in task and relationship conflict. *Journal of Personality*, 70, 311-344.
- Borman, W. C., White, L. A., & Dorsey, D. W. 1995. Effects of rate task performance and interpersonal factors on supervisor and peer performance ratings. *Journal of Applied Psychology*, 80: 168-177.
- Bowler, W. M., & Brass, D. J. 2006. Relational correlates of interpersonal citizenship behavior: A social network perspective. *Journal of Applied Psychology*, 91: 70-82.
- Bruner, J. S. 1957. On perceptual readiness. *Psychological Review*, 64, 123.
- Bruner, J. S. 1958. Social psychology and perception. *Readings in Social Psychology*, 3, 85-98.
- Buckingham, M., & Coffman, C. 1999. *First, break all the rules: What the worlds greatest managers do differently*. Simon and Schuster.
- Burt, R. S. 2004. Structural holes and good ideas. *American Journal of Sociology*, 110: 349-399.
- Campbell, L. J., & Kashy, D. A. 2002. Estimating actor, peer, and interaction effects for dyadic data using PROC MIXED and HLM5: A brief guided tour. *Personal Relationships*, 9: 327-342.
- Carmeli, A., Shalom, R., & Weisberg, J. 2007. Considerations in organizational career advancement: what really matters. *Personnel Review*, 36, 190-205.

- 1  
2  
3 Cascio, W. F. 2003. Changes in workers, work, and organizations. In I. B. Weiner, W. C.  
4 Borman, D. R. Ilgen, & R. J. Klimoski. (Eds.), *Handbook of psychology*, vol. 12: 401-  
5 422. Hoboken, NJ: John Wiley & Sons.  
6  
7  
8 Cerne, M., Nerstad, C., Dysvik, A., & Škerlavaj, M. 2013. What goes around comes around:  
9 Knowledge hiding, perceived motivational climate, and creativity. *Academy of*  
10 *Management Journal*, 57, 172-192.  
11  
12 Chiaburu, D. S., & Harrison, D. A. 2008. Do peers make the place? Conceptual synthesis and  
13 meta-analysis of coworker effects on perceptions, attitudes, OCBs, and  
14 performance. *Journal of Applied Psychology*, 93, 1082.  
15  
16  
17 Connelly, B. S., & Ones, D. S. 2010. An other perspective on personality: Meta-analytic  
18 integration of observers' accuracy and predictive validity. *Psychological Bulletin*, 136:  
19 1092-1122  
20  
21  
22 Costa, P. T. Jr., & McCrae, R. R. 1992. *Revised NEO Personality Inventory (NEOPI-R) and*  
23 *NEO Five-Factor (NEO-FFI) Inventory Professional Manual*. Odessa, FL: PAR.  
24  
25  
26 Curhan, J. R., & Pentland, A. 2007. Thin slices of negotiation: Predicting outcomes from  
27 conversational dynamics within the first 5 minutes. *Journal of Applied Psychology*, 92:  
28 802-811.  
29  
30  
31 Dohmen, T. J. 2004. Performance, seniority, and wages: formal salary systems and individual  
32 earnings profiles. *Labour Economics*, 11, 741-763.  
33  
34 Driskell, J. E., Olmstead, B., & Salas, E. 1993. Task cues, dominance cues, and influence in task  
35 groups. *Journal of Applied Psychology*, 78, 51-60.  
36  
37  
38 Dunbar, N. E., & Burgoon, J. K. 2005. Perceptions of power and interactional dominance in  
39 interpersonal relationships. *Journal of Social and Personal Relationships*, 22, 207-233.  
40  
41 Duncan, S., Kanki, B. G., Mokros, H., & Fiske, D. W. 1984. Pseudounilaterality, simple-rate  
42 variables, and other ills to which interaction research is heir. *Journal of Personality and*  
43 *Social Psychology*, 46: 1335-1348.  
44  
45  
46 Edwards, J. R., & Lambert, L. S. 2007. Methods for integrating moderation and mediation: a  
47 general analytical framework using moderated path analysis. *Psychological Methods*, 12,  
48 1-22.  
49  
50  
51 Eisenkraft, N., & Elfenbein, H. A. 2010. The way you make me feel evidence for individual  
52 differences in affective presence. *Psychological Science*, 21: 505-510.  
53  
54  
55 Eysenck, H. J. 1957. *The dynamics of anxiety and hysteria*. New York: Praeger.  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
1000

- 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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60
- Feinberg, M., Willer, R., Stellar, J., & Keltner, D. 2012. The virtues of gossip: Reputational information sharing as prosocial behavior. *Journal of Personality and Social Psychology*, 102: 1015.
- Feintzeig, R. For office introverts, a room of one's own. *The Wall Street Journal*, June 2<sup>nd</sup>, 2014.
- Ferrin, D. L., Bligh, M. C., & Kohles, J. C. 2008. It takes two to tango: An interdependence analysis of the spiraling of perceived trustworthiness and cooperation in interpersonal and intergroup. *Organizational Behavior and Human Decision Processes*, 107: 161-178.
- Fleeson, W. 2001. Toward a structure-and process-integrated view of personality: Traits as density distributions of states. *Journal of Personality and Social Psychology*, 80: 1011-1027.
- Flynn, F. J., Chatman, J. A., & Spataro, S. E. 2001. Getting to know you: The influence of personality on impressions and performance of demographically different people in organizations. *Administrative Science Quarterly*, 46, 414-442.
- Funder, D. C. 1995. On the accuracy of personality judgment: a realistic approach. *Psychological Review*, 102: 652-670.
- Galinsky, A. D., Magee, J. C., Inesi, M. E., & Gruenfeld, D. H. 2006. Power and perspectives not taken. *Psychological Science*, 17: 1068-1074.
- Gersick, C. J. G., Bartunek, J. M., & Dutton, J. E. 2000. Learning from academia: The importance of relationships in professional life. *Academy of Management Journal*, 43: 1026-1044.
- Gómez, C., Kirkman, B. L., & Shapiro, D. L. 2000. The impact of collectivism and in-group/out-group membership on the evaluation generosity of team members. *Academy of Management Journal*, 43: 1097-1106.
- Gosling, S. D., John, O. P., Craik, K. H., & Robins, R. W. 1998. Do people know how they behave? Self-reported act frequencies compared with on-line codings by observers. *Journal of Personality and Social Psychology*, 74: 1337-1349.
- Gottman, J. M., & Ringland, J. T. 1981. The analysis of dominance and bidirectionality in social development. *Child Development*, 393-412.
- Grant, A. M. 2013. Rethinking the extraverted sales ideal The ambivert advantage. *Psychological Science*, 24: 1024-1030.
- Grant A. M., Gino, F., & Hofmann, D. A. 2011. Revisiting the extraverted leadership advantage: The role of employee proactivity. *Academy of Management Journal*, 54: 528-550.

- 1  
2  
3  
4 Grant, A. M., & Parker, S. K. 2009. Redesigning work design theories: The rise of relational and  
5 proactive perspectives. *The Academy of Management Annals*, 1: 317-375.  
6  
7  
8 Haier, R. J., Robinson, D. L., Braden, W., & Williams, D. 1984. Evoked potential augmenting-  
9 reducing and personality differences. *Personality and Individual Differences*, 5: 283-  
10 301.  
11  
12 Hatfield, E., Cacioppo, J. T., & Rapson, R. L. 1994. *Emotional contagion. Studies in emotion*  
13 *and social interaction*. Cambridge, England: Cambridge University Press.  
14  
15  
16 Hekman, D. R., Aquino, K., Owens, B. P., Mitchell, T. R., Schilpzand, P., & Leavitt, K. 2010.  
17 An examination of whether and how racial and gender biases influence customer  
18 satisfaction. *Academy of Management Journal*, 53: 238-264.  
19  
20  
21 Higgins, T. E., Rholes, W. S., & Jones, C. R. 1977. Category accessibility and impression  
22 formation. *Journal of Experimental Social Psychology*, 13, 141-154.  
23  
24  
25 Humphrey, S.E., Hollenbeck, J.R., Meyer, C.J., Ilgen, D.R. 2007. Trait configurations in self-  
26 managed teams: A conceptual examination of the use of seeding for maximizing and  
27 minimizing trait variance in teams. *Journal of Applied Psychology*, 92: 885-982.  
28  
29  
30 Humphrey, S. E., Nahrgang, J. D., & Morgeson, F. P. 2007. Integrating motivational, social, and  
31 contextual work design features: a meta-analytic summary and theoretical extension of  
32 the work design literature. *Journal of Applied Psychology*, 92, 1332.  
33  
34  
35 Ilgen, D. R. 1999. Teams embedded in organizations: Some implications. *American*  
36 *Psychologist*, 54, 129.  
37  
38  
39 Ilgen, D. R., & Pulakos, E. D. 1999. Employee performance in today's organizations. In D. R.  
40 Ilgen & E. D. Pulakos (Eds.), *The changing nature of performance: Implications for*  
41 *staffing, motivation, and development*: 1-18. San Francisco: Jossey-Bass.  
42  
43  
44 John, O. P., Donahue, E. M., & Kentle, R. L. 1991. The big five inventory: Versions 4a and 54.  
45 Technical Report. *Institute of Personality and Social Research*. University of California,  
46 Berkeley, CA.  
47  
48  
49 John, O. P., & Srivastava, S. 1999. The big five trait taxonomy: History, measurement, and  
50 theoretical perspectives. In L. A. Pervin & O. P. John (Eds.), *Handbook of personality:*  
51 *theory and research*: (2nd ed.) 102-139. New York: Guilford Press.  
52  
53  
54 Judge, T. A., Higgins, C. A., Thoresen, C. J., & Barrick, M. R. 1999. The big five personality  
55 traits, general mental ability, and career success across the life span. *Personnel*  
56 *Psychology*, 52, 621-652.  
57  
58  
59  
60



- 1  
2  
3 Jungck, K., & Rahman, S. 2011. *Information security policy concerns as case law shifts toward*  
4 *balance between employer security and employee privacy*. The 2011 International  
5 Conference on Security and Management, Las Vegas, Nevada.  
6  
7  
8 Kaplan, M. F. 1975. Evaluative judgments are based on evaluative information: Evidence against  
9 meaning change in evaluative context effects. *Memory & Cognition*, 3, 375-380.  
10  
11 Kenny, D. A. 1995. *SOREMO version V. 2: A FORTRAN program for the analysis of round-*  
12 *robin data structures*. Unpublished manuscript, University of Connecticut, Storrs-  
13 Mansfield.  
14  
15  
16 Kenny, D. A., Kashy, D. A., & Cook, W. L. 2006. *Dyadic analysis*. New York: The Guilford  
17 Press.  
18  
19  
20 Kenrick, D. T., Li, N. P., & Butner, J. 2003. Dynamical evolutionary psychology: Individual  
21 decision rules and emergent social norms. *Psychological Review*, 110: 3-28.  
22  
23  
24 Kiesler, D. J. 1983. The 1982 interpersonal circle: A taxonomy for complementarity in human  
25 transactions. *Psychological Review*, 90: 185-214.  
26  
27  
28 Kiker, D. S., & Motowidlo, S. J. 1999. Main and interaction effects of task and contextual  
29 performance on supervisory reward decisions. *Journal of Applied Psychology*, 84, 602-  
30 609.  
31  
32 Klein, K. J., & D'Aunno, T. A. 1986. Psychological sense of community in the workplace.  
33 *Journal of Community Psychology*, 14, 365-377.  
34  
35  
36 Krasikova, D. V., & LeBreton, J. M. 2012. Just the two of us: Misalignment of theory and  
37 methods in examining dyadic phenomena. *Journal of Applied Psychology*, 97: 739-757.  
38  
39  
40 Kristof-Brown, A., Barrick, M. R., & Kay Stevens, C. 2005. When opposites attract: A  
41 multi-sample demonstration of complementary person-team fit on extraversion. *Journal*  
42 *of Personality*, 73, 935-958.  
43  
44  
45 Langsrud, Ø. 2003. ANOVA for unbalanced data: Use Type II instead of Type III sums of  
46 squares. *Statistics and Computing*, 13, 163-167.  
47  
48  
49 LePine, J.A., Buckman, B. R., Crawford, E. R., & Methot, J. R. 2011. A review of research on  
50 personality in teams: Accounting for pathways spanning levels of theory and analysis.  
51 *Human Resource Management Review*, 21: 311-330.  
52  
53  
54 Lepine, J. A., & Van Dyne, L. 2001. Peer responses to low performers: An attributional model of  
55 helping in the context of groups. *Academy of Management Review*, 26: 67-84.  
56  
57  
58 Lobel, T. E. 1981. Personality correlates of assertive behavior. *Personality and Individual*  
59 *Differences*, 2, 252-254.  
60

- 1  
2  
3  
4  
5 Markus, H., Smith, J., & Moreland, R. L. 1985. Role of the self-concept in the perception of  
6 others. *Journal of Personality and Social Psychology*, 49: 1494-1512.  
7
- 8 Martell, R. F., & Leavitt, K. N. 2002. Reducing the performance-cue bias in work behavior  
9 ratings: Can groups help? *Journal of Applied Psychology*, 87, 1032-1040.  
10
- 11 McCrae, R. R., & Costa, P. T., Jr. 1989. The structure of interpersonal traits: Wiggins'  
12 circumplex and the five-factor model. *Journal of Personality and Social Psychology*, 56:  
13 586-595.  
14  
15
- 16 Moskowitz, D. S. 2009. Coming Full Circle: Conceptualizing the Study of Interpersonal  
17 Behaviour. *Canadian Psychology. Psychologie Canadienne*, 50: 33-41.  
18  
19
- 20 Moskowitz, D. S., Ho, M. H. R., & Turcotte-Tremblay, A. M. 2007. Contextual influences on  
21 interpersonal complementarity. *Personality and Social Psychology Bulletin*, 33: 1051-  
22 1063.  
23  
24
- 25 Mount, M. K., Judge, T. A., Scullen, S. E., Sytema, M. R., & Hezlett, S. 1998. Trait, rater, and  
26 level effects in 360-degree performance ratings. *Personnel Psychology*, 51: 557-576.  
27
- 28 Myers, D. G. 1999. Close relationships and quality of life. In D. Kahneman, E. Diener, & N.  
29 Schwarz (Eds.), *Well-being: The foundations of hedonic psychology*: 374-391. New  
30 York: Sage Foundation.  
31  
32
- 33 Nisbett, R. E., & Wilson, T. D. 1977. The halo effect: Evidence for unconscious alteration of  
34 judgments. *Journal of Personality and Social Psychology*, 35, 250-256.  
35  
36
- 37 Opt, S. K. & Loffredo, D. A. 2000. Rethinking communication apprehension: A Myers-Briggs  
38 perspective. *The Journal of Psychology: Interdisciplinary and Applied*, 134: 556-570.  
39
- 40 Perry-Smith, J. E. 2006. Social yet creative: The role of social relationships in facilitating  
41 individual creativity. *Academy of Management Journal*, 49: 85-101.  
42  
43
- 44 Pfeffer, J. 2006. Working alone: Whatever happened to the idea of organizations as  
45 communities? In E. E. Lawler III & J. O'Toole (Eds.), *America at work: Choices and*  
46 *challenges*: 3-22. New York: Palgrave Macmillan.  
47
- 48 Pfeffer, J. 2010. *Power: Why some people have it and others don't*. New York, New York:  
49 Harper Business.  
50  
51
- 52 Porath, C. L., & Erez, A. 2007. Does rudeness really matter? The effects of rudeness on task  
53 performance and helpfulness. *Academy of Management Journal*, 50: 1181-1197.  
54  
55  
56  
57  
58  
59  
60

- 1  
2  
3 Preacher, K. J., Curran, P. J., & Bauer, D. J. 2006. Computational tools for probing interaction  
4 effects in multiple linear regression, multilevel modeling, and latent curve analysis.  
5 *Journal of Educational & Behavioral Statistics*, 31: 437-448.  
6  
7  
8 Preacher, K. J., Rucker, D. D., & Hayes, A. F. 2007. Addressing moderated mediation  
9 hypotheses: Theory, methods, and prescriptions. *Multivariate Behavioral Research*, 42:  
10 185-227.  
11  
12  
13 Raudenbush A., Bryk A., & Congdon R. 2009. *HLM* (Version 6.08) [Computer software].  
14 Lincolnwood, IL: Scientific Software International.  
15  
16  
17 Ridgeway, C. L. 1987. Nonverbal behavior, dominance, and the basis of status in task  
18 groups. *American Sociological Review*, 683-694.  
19  
20  
21 Rogelberg, S. G., Allen, J. A., Shanock, L., Scott, C., & Shuffler, M. 2010. Employee  
22 satisfaction with meetings: A contemporary facet of job satisfaction. *Human Resource*  
23 *Management*, 49, 149-172.  
24  
25  
26 Sartre, J. P. 1944. *Huis clos*. First performed at the Théâtre du Vieux-Colombier: Paris.  
27  
28  
29 Saucier, G. 1994. Mini-markers: A brief version of Goldberg's Unipolar Big-Five markers.  
30 *Journal of Personality Assessment*, 63: 506-516.  
31  
32  
33 Schalling, D. 1971. Tolerance for experimentally induced pain as related to personality.  
34 *Scandinavian Journal of Psychology*, 12: 271- 281.  
35  
36  
37  
38 Schneer, J. A., & Chanin, M. N. 1987. Manifest needs as personality predispositions to conflict-  
39 handling behavior. *Human Relations*, 40: 575-590  
40  
41  
42 Seibert, S. E., Crant, J. M., & Kraimer, M. L. 1999. Proactive personality and career success.  
43 *Journal of Applied Psychology*, 84, 416-427.  
44  
45  
46 Silverman, E. S. & Kwoh, L. Peer performance reviews take off: Ratings by colleagues reflect  
47 efforts by some firms to flatten management, encourage teamwork. *The Wall Street*  
48 *Journal*. July 31<sup>st</sup>, 2012.  
49  
50  
51 Sluss, D. M., & Ashforth, B. E. 2007. Relational identity and identification: Defining ourselves  
52 through work relationships. *Academy of Management Review*, 32: 9-32.  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
1000

- 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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60
- Srull, T. K., & Wyer, R. S. 1989. Person memory and judgment. *Psychological Review*, 96: 58-83.
- Stelmack, R. M. 1990. Biological bases of extraversion: Psychophysiological evidence. *Journal of Personality*, 58: 293-311.
- Tiedens, L. Z., & Fragale, A. R. 2003. Power moves: Complementarity in dominant and submissive nonverbal behavior. *Journal of Personality and Social Psychology*, 84: 558-568.
- Trapnell, P. D., & Wiggins, J. S. 1990. Extension of the interpersonal adjective scales to include the big five dimensions of personality. *Journal of Personality and Social Psychology*, 59: 781-790.
- Uhlmann, E. L., & Cohen, G. L. 2005. Constructed criteria redefining merit to justify discrimination. *Psychological Science*, 16: 474-480.
- Watson, D., & Clark, L. A. 1997. Extraversion and its positive emotional core. In R. Hogan, J. Johnson, & S. Briggs (Eds.), *Handbook of personality psychology*: 767-793. San Diego, CA: Academic Press.
- Wayne, S. J., & Ferris, G. R. 1990. Influence tactics, affect, and exchange quality in supervisor-subordinate interactions: A laboratory experiment and field study. *Journal of Applied Psychology*, 75, 487-499.
- Welbourne, T. M., Johnson, D. E., & Erez, A. 1998. The Role-Based Performance Scale: Validity analysis of a theory-based measure. *Academy of Management Journal*, 41: 540-555.
- Wherry, R.J., & Bartlett, C.J. 1982. The control of bias in ratings: A theory of rating. *Personnel Psychology*, 35: 521-551.
- Wiggins, J. S., & Trapnell, P. D. 1996. A dyadic-interactional perspective on the five-factor model. In J. S. Wiggins (Ed.), *The five-factor model: Theoretical perspectives*, 88-162. New York: Guilford Press.
- Wiggins, J. S., & Trobst, K. K. 1999. The fields of interpersonal behavior. In L. Pervin & O. John (Eds.), *Handbook of personality*, 653-670. New York: Guilford Press.
- Wrzesniewski, A., Dutton, J. E., & Debebe, G. 2003. Interpersonal sensemaking and the meaning of work. In R. M. Kramer & B. M. Staw (Eds.), *Research in organizational behavior*, vol. 25: 93-135. Amsterdam: Elsevier.
- Wyer, R. S. 1974. Changes in meaning and halo effects in personality impression formation. *Journal of Personality and Social Psychology*, 29, 829-835.

1  
2  
3 Yalovleva, M., Reilly, R. R., & Werko, R. 2010. Why do we trust? Moving beyond individual to  
4 dyadic perceptions. *Journal of Applied Psychology*, 95: 79-91.  
5  
6

7 Zenger, T. R. 1992. Why do employers only reward extreme performance? Examining the  
8 relationships among performance, pay, and turnover. *Administrative Science Quarterly*,  
9 198-219.  
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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

TABLE 1

Means (M), Standard Deviations (SD), and Intercorrelations among Study 1 Variables

	Mean	s.d.	1	2	3	4	5
1. Performance evaluations	4.10	.87	---				
2. Extraversion of actor	3.58	.75	-.14	---			
3. Agreeableness of actor	4.14	.51	.25	.06	---		
4. Extraversion of peer	4.10	.49	.12	.03	.07	---	
5. Agreeableness of peer	3.60	.71	.08	.06	.03	.30	---

*Notes.* N = 80-83 dyads. Correlations greater than |.29| are significant at p < .01 level. Correlations greater than |.17| are significant at p < .05 level. The mean, standard deviations, and intercorrelations are averaged across the three data sets of independent dyads.

TABLE 2

## Effects of Peer and Actor Personality on Actors' Performance Evaluations, Study 1

<i>Regression</i>	<i>Performance Evaluations</i>		
	<u>Data Set 1</u>	<u>Data set 2</u>	<u>Data set 3</u>
Actor extraversion (AE)	-.26**	-.19*	-.19*
Actor agreeableness (AA)	.45**	1.71**	.68**
Peer extraversion (PE)	.23*	1.57*	.09
Peer agreeableness (PA)	.05	.09	.19
AE x PE	.21*	.13*	.18*
AA × PE	-.24**	-.36*	-.20*
<i>Variance explained by model</i>	12%	4.7%	6.4%
<i>Simple slopes analysis</i>			
Actor Extraversion	I: -.41** E: .12	I: -.28** E: -.09	I: -.32** E: .12
Actor Agreeableness	I: .63** E: .28	I: 1.96** E: .83*	I: 1.45** E: .55*

*Notes.* \*  $p < .05$ , \*\* $p < .01$ . N (Data Set 1) = 83, N (Data Set 2) = 81, N (Data Set 3) = 80. The coefficients are unstandardized. I = Peer introvert (one SD below mean of extraversion), E = Peer extravert (one SD above mean of extraversion).

TABLE 3

Means (M), Standard Deviations (SD), and Intercorrelations Among Study 2 Variables

	Mean	s.d.	1	2	3	4	5	6	7
1. Performance evaluations	3.16	.99	---	.72	.54	.68	-.35	-.05	-.27
2. Promotions	3.68	1.59	.84	---	.67	.52	-.36	-.13	-.24
3. Reward	.62	.69	.74	.67	---	.56	-.11	-.16	-.13
4. Person impressions	3.03	1.02	.89	.78	.71	---	-.18	-.11	-.14
5. Trait sensitivity	---	---	.89	.77	.70	.93	---	-.11	.56
6. Peer extraversion	3.46	.78	.24	.33	.00	.24	.26	---	.00
7. Manipulation	---	---	-.79	-.72	-.65	-.74	-.83	-.16	---

*Notes.* N = 135 (agreeableness condition N = 69 [Agreeable (0) = 37, Disagreeable (1) = 32], extraversion condition N = 66 [Introvert (0) = 43, Extravert (1) = 23]). Agreeableness condition below diagonal; Extraversion condition above diagonal. Means and SD are of the combined sample. Correlations greater than |.31| are significant at the p < .01 level. Correlations greater than |.24| are significant at the p < .05 level. The descriptives of trait sensitivity agreeableness were M = 3.11 (SD = 1.25) and for extraversion M = 2.16 (SD = 1.04).



TABLE 4

## Extraversion Condition Moderated Mediation Regression Results

Dependent Variable	Performance Evaluation		Promotion		Reward	
Mediator Variables	<i>Person Impression</i>	<i>Trait Sensitivity</i>	<i>Person Impression</i>	<i>Trait Sensitivity</i>	<i>Person Impression</i>	<i>Trait Sensitivity</i>
Mediator	.70**	-.20	.79**	-.44*	.41**	-.03
Peer's Extraversion (T)	-.86	-1.59**	-1.85*	-2.50**	-.92*	-1.41**
Actor's Extraversion (C)	-1.32*	-1.79*	-2.28*	-2.25	-.88	-1.38*
T x C	.64	1.00*	1.15	1.36*	.52	.81*
Conditional Indirect Effect	I: -.44* E: .10	I: -.34 E: -.16	I: -.50* E: .11	I: -.74* E: -.35	I: -.26* E: .06	I: -.04 E: -.02

Notes. N = 66 [Introvert (0) = 43, Extravert (1) = 23]. \*\*p < .01, \*p < .05. Peer is the participant and actor is the virtual confederate. I = Peer's Introversion Indirect path, E = Peer's Extraversion Indirect path.

TABLE 5

Agreeableness Condition Moderated Mediation Regression Results

Dependent Variable	Performance Evaluation		Promotion		Reward	
Mediator Variables	<i>Person Impression</i>	<i>Trait Sensitivity</i>	<i>Person Impression</i>	<i>Trait Sensitivity</i>	<i>Person Impression</i>	<i>Trait Sensitivity</i>
Mediator	.58**	.62**	.83**	.76**	.24*	.27*
Peer's Extraversion (T)	-.49	-1.44	-.49	-2.14	-1.13	-1.48
Actor's disagreeableness (C)	-.93*	-1.03*	-1.41	-1.93	-.84	-.84
T x C	.18	.43	.23	.68	.31	.40
Conditional Indirect Effect	I: -1.33** E: -.62**	I: -1.47** E: -1.01**	I: -1.90** E: -.88**	I: -1.83** E: -1.25**	I: -.55* E: -.25*	I: -.64* E: -.44*

Notes. N = 69 [Agreeable (0) = 37, Disagreeable (1) = 32]. \*\*p < .01, \*p < .05. Peer is the participant and actor is the virtual confederate. I = Peer's Introversion Indirect path, E = Peer's Extraversion Indirect path.

FIGURE 1

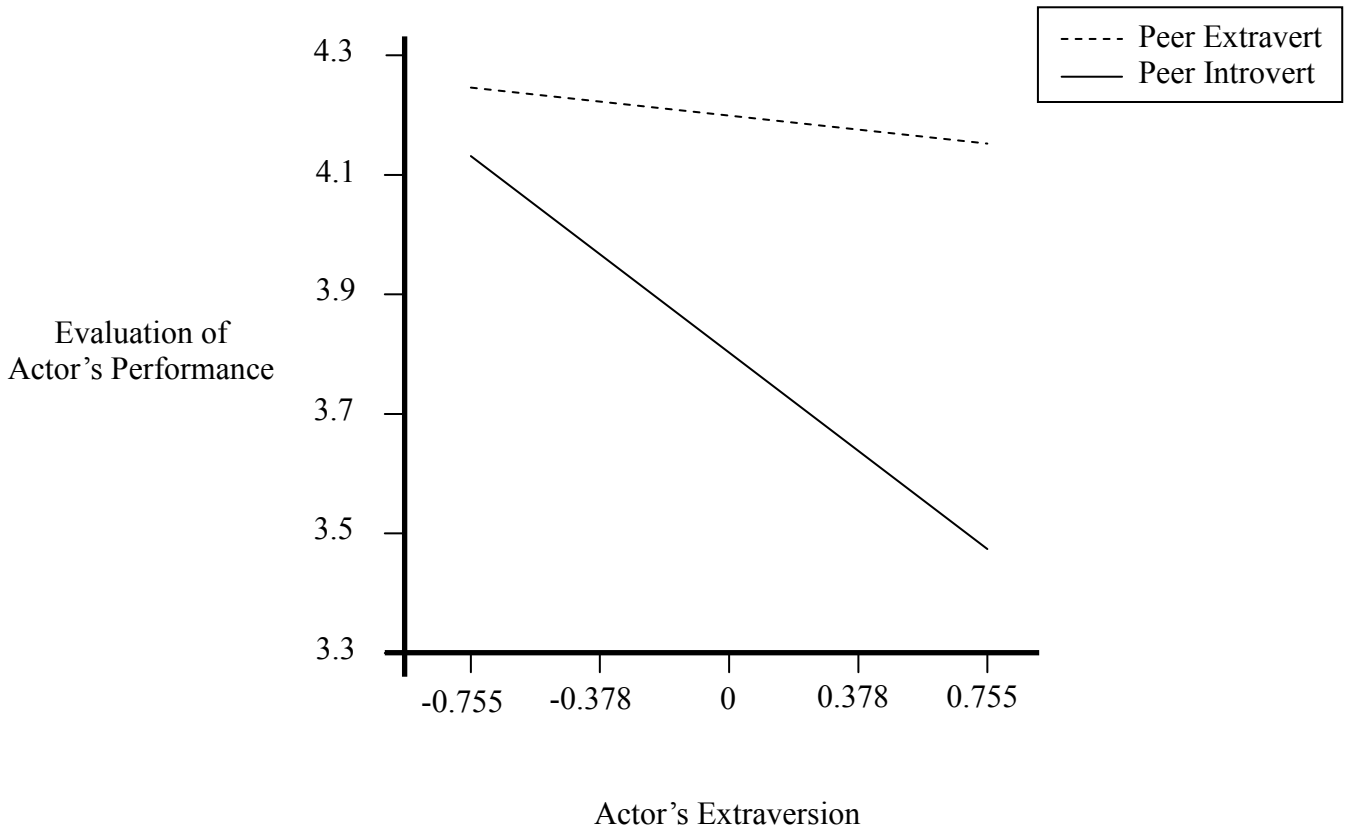
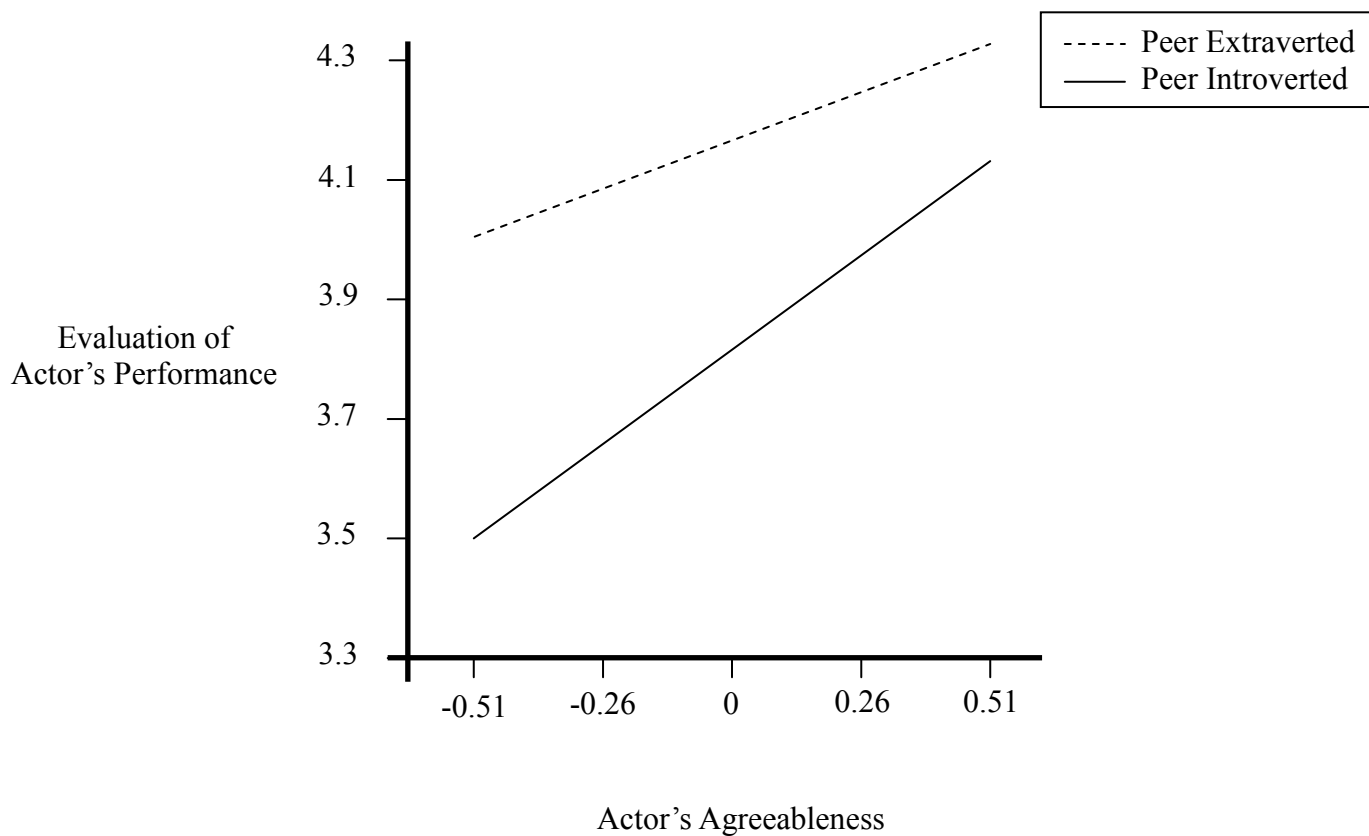
**Interactive Effects of Peer and Actor Extraversion on Peer's Performance Evaluations of Actor**

FIGURE 2

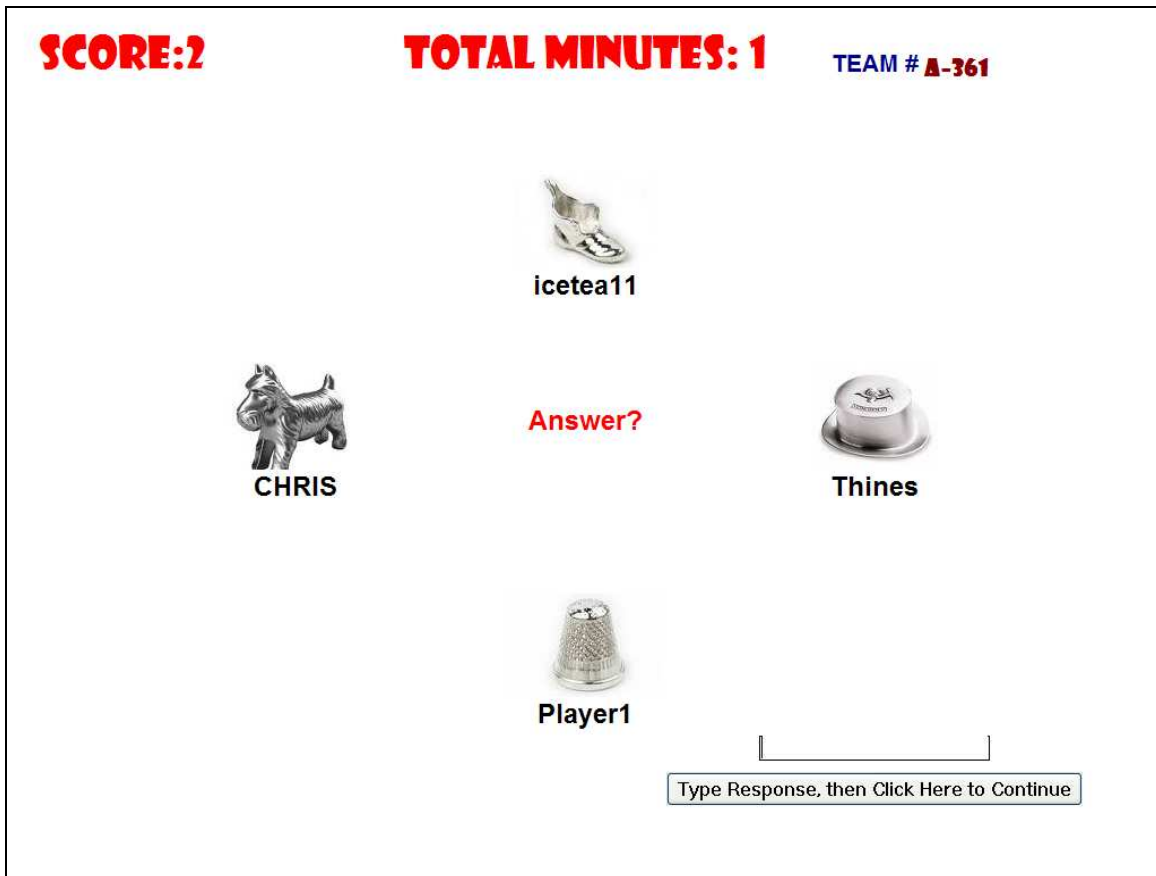
Interactive Effects of Peer Extraversion and Actor Agreeableness on Peer's Performance Evaluations of Actor



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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

FIGURE 3

Screenshot of Synergize! Game in Play



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  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

1  
2  
3 **Amir Erez** (amir.erez@warrington.ufl.edu) is the Huber Hurst Professor of Management at the  
4 Warrington College of Business Administration, University of Florida. He received his Ph.D.  
5 from Cornell University. His research examines the cognitive processes by which emotions,  
6 moods, and personality dispositions influence motivation and performance.  
7  
8

9 **Pauline Schilpzand** (Pauline.Schilpzand@bus.oregonstate.edu) is an Assistant Professor at the  
10 Oregon State University College of Business. She received her Ph.D. in Management from the  
11 University of Florida. Her research interests include interpersonal processes in the workplace,  
12 workplace incivility, and workplace courage.  
13  
14

15 **Keith Leavitt** (keith.leavitt@oregonstate.edu) is an assistant professor at the Oregon State  
16 University College of Business. He received his Ph.D. in business administration from the  
17 University of Washington. His research focuses on social judgments in the workplace, ethical  
18 decision making and behavior, and research methods.  
19  
20

21 **Andrew H. Woolum** (woolum@ufl.edu) received his Ph.D. in Interdisciplinary Ecology from  
22 the University of Florida and is currently pursuing a Ph.D. in Management at the Warrington  
23 College of Business Administration, University of Florida. His research examines the influence  
24 of personality on interpersonal perceptions and job attitudes/outcomes.  
25  
26

27 **Timothy A. Judge** (tjudge@nd.edu) is the Franklin D. Schurz Professor Management, Mendoza  
28 College of Business, and Professor of Psychology, University of Notre Dame. He received his  
29 Ph.D. from the University of Illinois at Urbana-Champaign. He conducts research in the areas of  
30 personality, job attitudes, moods/emotions, leadership, and staffing.  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60