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Between Home and Work: Commuting as an Opportunity for Role Transitions

Jon M. Jachimowicz,^a Julia Lee Cunningham,^b Bradley R. Staats,^c Francesca Gino,^a Jochen I. Menges^{d,e}

^a Harvard Business School, Harvard University, Boston, Massachusetts 02163; ^b Stephen M. Ross School of Business, University of Michigan, Ann Arbor, Michigan 48104; ^c Kenan–Flagler Business School, University of North Carolina, Chapel Hill, North Carolina 27599-3490;

^d Department of Business Administration, University of Zurich, 8032 Zurich, Switzerland; ^e Cambridge Judge Business School, University of Cambridge, Cambridge, United Kingdom CB2 1AG

Contact: jjachimowicz@hbs.edu,  <https://orcid.org/0000-0002-1197-8958> (JMJ); profjlee@umich.edu (JLC); bstaats@unc.edu (BRS); fgino@hbs.edu (FG); jochen.menges@uzh.ch (JIM)

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Abstract. Across the globe, every workday people commute an average of 38 minutes each way, yet surprisingly little research has examined the implications of this daily routine for work-related outcomes. Integrating theories of boundary work, self-control, and work-family conflict, we propose that the commute to work serves as a liminal role transition between home and work roles, prompting employees to engage in boundary management strategies. Across three field studies ($n = 1,736$), including a four-week-long intervention study, we find that lengthy morning commutes are more aversive for employees with lower trait self-control and greater work-family conflict, leading to decreased job satisfaction and increased turnover. In addition, we find that employees who engage in a specific boundary management strategy we term *role-clarifying prospection* (i.e., thinking about the upcoming work role) are less likely to be negatively affected by lengthy commutes to work. Results further show that employees with higher levels of trait self-control are more likely to engage in role-clarifying prospection, and employees who experience higher levels of work-family conflict are more likely to benefit from role-clarifying prospection. Although the commute to work is typically seen as an undesirable part of the workday, our theory and results point to the benefits of using it as an opportunity to transition into one's work role.

Keywords: commuting • boundary work • self-control • work-family conflict • prospection

Employees' home and workplace are often in separate locations, and as a result, most face a commute every workday. Globally, the mean commuting time is about 38 minutes each way (Rampell 2011). An average commuter spends almost 300 hours traveling between home and work over the course of a year, equivalent to more than 10% of her total working time (OECD 2017). In addition, commutes are getting longer. One recent study found that the distance between employees' home and their workplace in the United States grew by about 5% from 2000 to 2012 (Kneebone and Holmes 2015).

Extant research suggests that people do not enjoy commuting. In a survey conducted by Kahneman and Krueger (2006), respondents identified the morning journey between home and work as their least desirable activity of the day, with the evening commute being rated as the third worst activity. Crucially, employees not only dislike commuting but also bear negative consequences from it. Several surveys have found that longer commutes are associated with lower levels of job satisfaction and increased turnover intention (Zhang and Feinzig 2016, Chatterjee et al. 2017). However, despite the pervasiveness of commuting

and its significant impact on people's lives, few organizational researchers have studied this part of the day. As a result, it remains poorly understood *who* is most affected by the commuting experience, *when* people are particularly affected, and *how* people could better cope with lengthy commutes.

To address these questions, we draw on boundary theory, which is concerned with how people manage different work and nonwork roles (Nippert-Eng 1996, Kossek et al. 1999, Ashforth 2000, Edwards and Rothbard 2000). We conceptualize commuting as a time period during which employees' home and work roles are coactivated as they physically and psychologically transition between these different roles (Rothbard and Ramarajan 2009). Transitions from one role to another require boundary work, which involves "strategies, principles, and practices we use to create, maintain, and modify cultural boundaries" (Nippert-Eng 1996, p. 7). We extend boundary theory by suggesting that the boundary work inherent in commuting affects employees' job satisfaction and turnover intentions. Whether employees suffer from long commutes, we propose, is contingent on characteristics of commuters—specifically, on their levels

of trait self-control and work-family conflict. Research on self-control (de Ridder et al. 2012, Hofmann et al. 2014) implies that people higher in trait self-control may be better able to regulate their thoughts during their commute, thus facilitating a smoother and more efficient role transition. Moreover, literature on work-family conflict (Greenhaus and Beutell 1985, Edwards and Rothbard 2000, Rothbard et al. 2005) indicates that longer commutes may be particularly challenging for those with greater work-family conflict because these employees must manage two conflicting roles. Finally, we propose that in order to cope with longer commutes, employees may engage in *role-clarifying prospection* (drawing on Austin and Vancouver 1996, Szpunar et al. 2014), a specific boundary work strategy that involves engaging in thoughts about their upcoming (work) role during employees' commute to work.

The current research makes several theoretical contributions. First, in conceptualizing commuting as a role transition that requires self-regulatory resources, we identify two important boundary conditions (trait self-control and work-family conflict), develop a logic on why these factors may facilitate or hinder employees' effective role transition during their commutes, and highlight how it spills over into critical job-related outcomes including job satisfaction and turnover. Second, we advance boundary theory by elucidating *how* people can transition effectively from one role to another during their commute to work. We theorize that a specific boundary management strategy (i.e., role-clarifying prospection) buffers the negative consequences arising from longer commutes. In sum, by bringing together organizational and psychological research in an endeavor to understand the role of commuting in people's working lives, we advance an account that may help commuters around the world to better use their commute to transition from one role to another.

Theory

Commuting, Job Satisfaction, and Turnover

Previous research suggests that the longer people commute, the lower their job satisfaction—defined as “the extent of positive emotional response to the job resulting from an employee's appraisal of the job as fulfilling or congruent with the individual's values” (Morris and Venkatesh 2010, p. 145)—and the higher their likelihood to quit their current job (i.e., turnover) (Chen et al. 2011). For example, in one survey of over 26,000 employees studied longitudinally over five years, employees who had lengthier commutes reported lower job satisfaction (Chatterjee et al. 2017). Another survey of more than 22,000 employees showed that in response to the question “What would make you leave your current organization for a new job?”

around half of all participants responded, “an easier commute to work” (Zhang and Feinzig 2016). In order to be fully compensated for the decrease in life satisfaction prompted by longer commutes, a study by Stutzer and Frey (2008) found that the average commuter would need to receive a pay raise of 19% per month. The linkage between longer commutes and both lower satisfaction and higher turnover is thus evident in the literature across different disciplines.

One perspective that specifically theorized the negative effects of commutes is the “commute impedance model” (Novaco et al. 1979), which proposes that commuters suffer when their commute is interrupted or delayed. This model defines impedance as a behavioral restraint on movement or goal attainment (Novaco et al. 1991) (i.e., as anything that frustrates the goal to arrive at a destination, such as traffic congestion, construction, or delays). As a result, when employees encounter situations during their commute that may delay their arrival at work, they experience greater levels of stress (Stokols et al. 1978, Koslowsky et al. 1995, Novaco and Gonzalez 2011). Longer commutes offer more opportunities for impedances to occur, and thus, longer commutes have the potential to be more stressful (Schaeffer et al. 1988, Novaco et al. 1991, Hennessy and Wiesenthal 1997, Evans and Wener 2006). This aversive commuting experience may spill over into an employees' work experience, negatively influencing job satisfaction and encouraging turnover (Demerouti et al. 2005, Sonnentag and Binnewies 2013). In turn, because employees view commuting as part of their job—given that they engage in commuting in order to get to work—employees are likely to attribute their negative feelings during their commute to their job (Schwarz and Clore 1983, Cesario et al. 2004). The commute impedance model thus offers a tentative reason for why longer commutes take a toll on job satisfaction: because of the increased likelihood of interferences when people travel to work. As the psychologist Daniel Gilbert has said, “You can't adapt to commuting, because it's entirely unpredictable. Driving in traffic is a different kind of hell every day” (as cited in Vanderbilt 2008, p. 141). By extension, the longer employees commute every day, the more exposed they are to this “unpredictable hell.”

Interestingly, despite the stress inherent in commuting—and although people consistently report disliking commuting—when asked about the “ideal” commute length, their answer is not zero; instead, one study finds it to be 16 minutes (Redmond and Mokhtarian 2001). Another study of 418 commuters found that after the variability in commuting time because of impedances is taken into account, people with longer commutes enjoy them *more* (Kluger 1998). Even people with higher income, who can often afford to

live closer to work, tend to commute longer distances, displaying a preference for some commuting time (Vanderbilt 2008). This suggests that there may exist benefits to having some commuting time as a buffer between home and work, indicating that the commute impedance model alone may not be sufficient in capturing the varied effects of commuting time on job satisfaction and turnover. Beginning with the suggestion that there may be some value in commuting—and that certain people are more affected by commuting than others—we here intend to develop a nuanced understanding of commuting and the conditions under which commute time is related to job satisfaction and turnover.

Commuting as Crossing Role Boundaries

We draw on boundary theory (Nippert-Eng 1996, Kossek et al. 1999, Ashforth 2000, Edwards and Rothbard 2000) to suggest that commuting may prompt a particular kind of boundary work that employees engage in on a daily basis. Two roles have received particular attention in prior research, employees' home and work roles. A role is defined as "the building block of social systems and the summation of the requirements with which such systems confront their members as individuals" (Katz and Kahn 1978, pp. 219–220); specifically, home roles commonly concern psychological and affective requirements placed on the individual by family members and friends, whereas work roles typically reflect instrumental requirements conducive to task accomplishment that are put forth by colleagues and managers (Evans and Bartolomé 1984, Oldenburg 1997, Ashforth et al. 2000).

Boundary theory suggests that boundaries between work and home domains have become more permeable in modern workplaces, with employees increasingly integrating work and home roles in time and space (e.g., flextime and flex place job designs) (Ashforth et al. 2000). In particular, boundary theory highlights that employees' work roles may be disrupted and distracted by having their home roles spillover and vice versa. For example, research has investigated the extent to which employees psychologically transcend the physical work/nonwork boundary by thinking about nonwork-related activities while still at work (Dumas and Sanchez-Burks 2015, Smit et al. 2016), such as thoughts related to their role as a spouse or parent (Dumas and Stanko 2017, Dumas and Perry-Smith 2018).

Prior research proposes two general strategies to manage boundaries: segmentation and integration (Nippert-Eng 1996). Home and work roles can thus be more or less segmented (with people drawing a clear distinction between these two roles) or integrated (with people blurring the boundary between the two roles) (Rothbard et al. 2005). Existing research has

focused on how employees manage the boundary between different roles and on the extent to which employees desire and enact segmentation or integration of home and work roles (Rothbard et al. 2005). It should be noted, however, that these strategies imply that employees are either at work or at home and strive to demarcate or integrate the two roles. We instead focus here on the time period during which people transition between roles, which has not been extensively studied in prior research within boundary theory. Indeed, by focusing on commuting time, we shed light on a neglected aspect of boundary theory: the role transitions.

Defined as the "psychological and physical movement between sequentially held roles" (Ashforth 2000, p. 7), role transitions involve three stages: role exit, transition, and role entry (van Gennepe 1960, Ashforth et al. 2000). In their seminal work on boundary theory, Ashforth et al. (2000, p. 473) noted that commutes offer an opportunity for "a physical and psychological shift between roles." In our research, we focus on the commute to work that requires exit from the home role, the transition during which the role switch occurs, and entry into the work role. In this sense, the commuter is in the process of crossing a boundary between the home role to the work role. Based on our conceptualization of commuting as role transitions, we propose two key factors that could modulate the relationship between lengthy commutes and job satisfaction in the following section.

Trait Self-Control and Work-Family Conflict as Moderating Factors

The first factor that we suggest helps people navigate the commute to work is trait self-control or "the capacity...to regulate behavior, thoughts, and emotions" (de Ridder et al. 2012, p. 77). Given that the goal of the commute is to physically arrive at work and to psychologically enter the work role, we suggest that employees with higher levels of trait self-control are more likely to efficiently transition into their work role than those with lower levels of trait self-control.

Research suggests that levels of trait self-control are related to how likely individuals are to plan ahead, especially for future goal-related tasks (de Ridder et al. 2012), as well as how likely individuals are to acknowledge that planning is a useful activity (Alahmadi et al. 2017). Thus, individuals with higher levels of trait self-control may be more likely to build future-oriented routines (e.g., estimating travel time based on traffic and weather conditions in advance; having a routine for sleep, clothes, and breakfast; and so forth), which largely shape how their commutes are experienced. On the other hand, those who have lower levels of trait self-control may be less likely to develop and stick with systematic and routinized

behaviors that serve to make the commute less aversive, and as a result, they may be less able to cope with unpredictable events during their commute.

Because an employee's level of trait self-control influences his or her ability to withstand unpredictable events or delays during the commute, this would result in a repeated experience of daily commuting being perceived as more or less aversive and frustrating. As we noted, employees view commuting as part of their job and are likely to attribute their negative feelings during their commute to their job (Schwarz and Clore 1983, Cesario et al. 2004). For this reason, employees with higher levels of trait self-control may be more likely to transition well into their work role during their commute to work, thus leaving them less vulnerable to the strain of commuting and as a result, more satisfied with their job. In contrast, and following the same logic, employees with lower levels of trait self-control may be more vulnerable to the strain of commuting and thus, less satisfied with their job. We therefore propose the following:

Hypothesis 1. *The negative relationship between commute length and both job satisfaction and turnover is less pronounced for employees with high trait self-control than for those with low trait self-control.*

Another crucial factor that increases the tension between home and work roles is work-family conflict, defined as “a form of inter-role conflict in which the role pressures from the work and family domains are mutually incompatible so that participation in one role [home] is made more difficult by participation in another role [work]” (Greenhaus and Beutell 1985, p. 77). Past research has examined situations where employees' role expectations are clearly defined as either work or home related. Crossrole thoughts often arise spontaneously rather than in a planned fashion, intruding into an employee's current role (Lin et al. 2013). With higher levels of work-family conflict, it is more likely that experiences in one's home role interfere with the requirements of and effectiveness in one's work and vice versa (Edwards and Rothbard 2000). The negative consequences of increased work-family conflict extend beyond work interference; for example, work-family conflict is associated with higher levels of burnout and the experience of negative emotions such as guilt and hostility both at work and at home (Bacharach et al. 1991, Ilies et al. 2006) as well as poorer health outcomes (Davis et al. 2017). To the extent that work-family conflict psychologically hinders the commuter's role transition and makes the coactivation of home and work roles during the commute to work more straining (Rothbard and Ramarajan 2009, Ramarajan et al. 2017, Robin et al. 2018), we propose that the negative effects of lengthy commutes

will be particularly more pronounced for employees who have high levels of work-family conflict than for those who have low levels of work-family conflict.

Hypothesis 2. *The negative relationship between commute length and both job satisfaction and turnover is more pronounced for employees who experience higher levels of work-family conflict than for those with lower levels of work-family conflict.*

Role-Clarifying Prospecation as a Boundary Management Strategy

Boundary theory suggests that employees can transcend the home-work boundary cognitively by thinking about work activities while they are not yet at work or by thinking about nonwork activities while they are at work (Nippert-Eng 1996, Rothbard et al. 2005, Glavin et al. 2011, Dumas and Sanchez-Burks 2015, Dumas and Perry-Smith 2018). Indeed, employees may enact a boundary management strategy to organize and separate role demands and expectations (Kossek et al. 1999). Drawing from this work, we argue that during their commute, employees can cognitively transition into and enact another role by thinking about role-relevant aspects. To do so, employees might use a cognitive boundary management strategy called *prospecation*, which refers to “the ability to represent what might happen in the future” (Szpunar et al. 2014, p. 18414).

Specifically, during their commute, employees may benefit from what we call *role-clarifying prospecation*, the ability to clarify what role to enact next. Through role-clarifying prospecation, employees mentally shift their attention from what they are experiencing in the present—thoughts pertaining to their commute or thoughts unrelated to their past or future role—to what they will be experiencing when they arrive at work, namely thoughts pertaining to their workday. We argue that this future focus enables employees to cognitively enact their upcoming work role during their commute, facilitating work role entry. By cognitively activating an employee's work role prior to entry, role-clarifying prospecation prepares employees by providing them with a clear sense of which role they are transitioning into before getting to work.

In so doing, we posit that role-clarifying prospecation also reduces the psychological burden of coactivated identities. The role transition during the commute to work involves the coactivation of both home and work identities while employees linger between exiting their home role and entering their work role (Rothbard and Ramarajan 2009, Ramarajan et al. 2017, Robin et al. 2018). Such coactivation is commonly experienced as aversive because it brings to mind potentially conflicting goals associated with each role, which can prompt negative affect (Festinger 1957, Edwards and Rothbard 2000, Rothbard and Ramarajan 2009).

Because lengthy commutes to work extend the time spent in coactivation, this prolonged negative experience may spillover into employees' workday such as through affective primes (e.g., starting one's day on the wrong foot) (see Rothbard and Wilk 2011). Consider that in the work-home resources model, demands in one domain may deplete mental resources (such as time, energy, and mood) and reduce accomplishments in the other domain (ten Brummelhuis and Bakker 2012). Likewise, employees whose commuting time is not utilized for effective role transition but instead, used for ruminating on their home role may feel depleted at the onset of their role entry with remaining coactivated identities and lingering thoughts about their home role. Employees may ultimately attribute such depletion to how dissatisfied they are with their employment as they accumulate similar experiences over time.

Role-clarifying prospection may, however, prevent this effect by limiting the time of coactivated roles in favor of facilitating work role entry, thus focusing employees on thinking about upcoming tasks and setting priorities for the workday ahead. As a result, role-clarifying prospection may reduce the burden of commuting. A successfully employed, repeated use of role-clarifying prospection as a habitual routine during the daily commute may reduce the likelihood of rumination on the employee's home role and therefore, buffer the negative spillover of a lengthy commute. Effective role transitions may then reduce employees' interpretation of the negative experience in the morning as representative of their overall job satisfaction (Neal et al. 2012, 2013). This may subsequently also reduce employees' intention to quit their job and look for alternative jobs (Griffeth et al. 2000). Thus, we suggest that role-clarifying prospection represents a specific type of boundary management strategy that can buffer against the aversive effects of lengthy commutes by facilitating one's work role entry.

Hypothesis 3. *Engaging in role-clarifying prospection attenuates the negative effect of commuting time on job satisfaction and turnover.*

Although role-clarifying prospection is a cognitive boundary management strategy anyone can engage in, we suggest that employees with higher levels of trait self-control are more inclined to engage in role-clarifying prospection. Higher levels of trait self-control are achieved in part through a variety of cognitive strategies that influence an individual's ability to remain on track with their intended goals and regulate their thoughts (Magen and Gross 2010, Inzlicht et al. 2014). For example, individuals with higher levels of trait self-control are more likely to recognize opportunities to deploy cognitive strategies that may help them regulate their thoughts (Myrseth

and Fishbach 2009). Indeed, individuals with higher levels of trait self-control are more likely to recognize situations where regulation can be deployed for beneficial outcomes (Converse et al. 2019, Tornquist and Miles 2019).

Taken together, employees with higher trait self-control may thus use their capacity to regulate their thoughts to engage in specific cognitions that allow them to transition into their work role. They may thus be better able to mentally engage in boundary management strategies (such as role-clarifying prospection) that facilitate a work role entry even before they arrive at work and the workday begins (Ashforth 2000, Smit et al. 2016). On the other hand, employees with lower levels of trait self-control are more likely to engage in thoughts and behaviors that are rewarding in the short term (Hofmann et al. 2012). As a result, those employees may be more likely to be left in limbo during their commute, engaging in behaviors that are rewarding in the short term, such as listening to music or daydreaming, but that are inconsistent with the goal of role transition (Novaco et al. 1990, Kluger 1998). We thus argue that individuals with higher levels of trait self-control differ from those with lower levels of trait self-control in how they relate to long-term goals and in how they regulate their time and attention, suggesting that they are likely to engage in role-clarifying prospection during their commute.

Hypothesis 4. *Employees who have high levels of trait self-control are more likely to engage in role-clarifying prospection during their commute to work compared with those who have low levels of trait self-control.*

Lastly, we propose that the beneficial outcomes associated with role-clarifying prospection outlined—that is, its attenuation of the negative consequences of lengthy commutes by facilitating role transitions—are particularly important for employees with greater work-family conflict. This proposition aligns with a qualitative study of individuals who work at home (Ahrentzen 1990), which found that those who did not make an effort to separate work and family were more likely to experience both role overlap between work and nonwork activities and work-family conflict. In contrast, those who created boundaries to manage their work-family conflict—including transition rituals, such as exercise—were less likely to experience role overlap and work-family conflict. As a result, engaging in role-clarifying prospection may be particularly important for this group of employees, offering them an opportunity to deliberately clarify their upcoming work role:

Hypothesis 5. *Role-clarifying prospection will attenuate the negative effect of longer commutes on job satisfaction and turnover more strongly for individuals with higher levels of work-family conflict.*

Overview of the Present Research

Our conceptual model is depicted in Figure 1. We tested the five hypotheses across three field studies. Study 1 investigated in the field whether the negative relationship between the length of employees' commute and job satisfaction is attenuated for employees with higher levels of trait self-control and whether this influences turnover (Hypothesis 1). For Study 2, we recruited full-time employees through an online panel to complete a survey where we sought to both replicate the results of Study 1 and to test the remaining hypotheses (Hypotheses 2–5). Study 3 consisted of a field experiment during which we manipulated role-clarifying prospection for two weeks by prompting some employees, but not others, to think about their workday ahead while commuting and then examined the effect of this manipulation on employees' job satisfaction and turnover intention. The third study offered a causal examination of whether role-clarifying prospection attenuates the negative effect of commuting time on job satisfaction and turnover intention, testing Hypotheses 3 and 5.

Study 1

In Study 1, we tested whether employees with higher levels of trait self-control are less adversely affected by lengthy commutes than their low-self-control counterparts. This study provides an initial test of our idea that the commute to work activates boundary work, which may benefit employees with higher levels of trait self-control (i.e., Hypothesis 1). To do so, we conducted a multitime-point, multisource field study at the UK offices of a global media firm. We anticipated that employees with lengthy commutes and lower trait self-control would be less satisfied with their jobs and more likely to quit the organization.

Method

Sample and Procedures. The firm's Chief Executive Officer (CEO) sent email invitations to all 559 employees asking them to participate in a study about improving their workplace. Thirty days later, the CEO sent a second email to all employees inviting

them to complete a second survey. We matched the data between the two surveys through an assigned code that participants received. In addition, the human resources (HR) department of the firm provided us with turnover data six months after the second survey. Of the invited employees, 332 responded to the first survey (59.4%), and 333 responded to the second survey (59.6%). A total of 225 employees completed both surveys and had HR data that could be matched ($M_{age} = 32.72$, $SD_{age} = 6.87$; 57% male). Respondents had worked at the firm for an average of 2.85 years ($SD = 3.37$). We compared the demographics of respondents and nonrespondents and found no differences in age (*nonrespondents'* $M = 31.97$, $SD = 9.00$, $t(557) = -1.24$, not statistically significant (ns)), gender (*nonrespondents'* $n = 335$, 35.2% female, $\chi^2(1) = 3.50$, ns), or firm tenure (*nonrespondents'* $M = 3.04$, $SD = 3.73$, $t(557) = 0.54$, ns).

Measures

Commuting Time. Employees reported their daily commuting time in the second survey. Commuting duration ranged from 2 to 240 minutes, with an average of 50.56 minutes ($SD = 31.8$). This is comparable with the 74-minute average commute where the study was conducted (London, United Kingdom) (see Cotton 2018).

Trait Self-Control. We assessed trait self-control using a 10-item measure (Tangney et al. 2004) in the first survey (e.g., "I am good at resisting temptation" and "I do things that feel good in the moment but regret later on" (1 = "Not at all like me" to 5 = "Very much like me"; $\alpha = 0.77$)).

Job Satisfaction. We measured employees' job satisfaction using a three-item scale (Morris and Venkatesh 2010) in the second survey (e.g., "Overall, I am satisfied with my job" (1 = "Strongly Disagree" to 7 = "Strongly Agree"; $\alpha = 0.81$)).

Actual Turnover. We assigned a one to the 41 respondents (19.2%) who voluntarily left the firm in the six months after the second survey and a zero to all others.

Control Variables. We controlled for age, gender, and organizational tenure in the analyses because age and gender are related to job satisfaction (Hunt and Saul 1975, Kalleberg and Loscocco 1983, Clark et al. 1996, Clark 1997). Age and tenure are also negatively related to turnover, with women tending to quit their jobs less often than men (Griffeth et al. 2000). In addition, we controlled for hierarchy using information that we received from the organization's HR department about the hierarchy level of employees, which ranged from zero (most junior) to six (most senior). To control for job performance, which has

Figure 1. Conceptual Framework

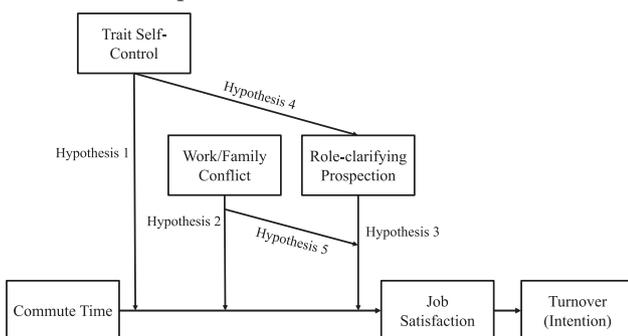


Table 1. Study 1: Means, Standard Deviations, and Correlations for Study Variables

	Mean	SD	1	2	3	4	5	6	7	8	9
1. <i>Commuting Time</i> (minutes)	50.56	31.8									
2. <i>Trait Self-Control</i>	3.42	0.57	0.11								
3. <i>Age</i>	32.72	6.87	0.18**	0.19**							
4. <i>Female</i>	0.43	0.50	-0.13	0.02	-0.14*						
5. <i>Tenure</i> (months)	34.56	40.38	0.28**	0.22**	0.43**	-0.15*					
6. <i>Hierarchy Level</i>	3.33	1.25	0.12	0.12	0.61**	-0.14*	0.40**				
7. <i>Performance Award</i>	0.12	0.33	0.10	0.03	0.04	-0.07	0.25**	0.20**			
8. <i>Job Stress</i>	4.35	1.29	0.04	-0.08	0.00	-0.10	0.14*	0.20**	0.16*		
9. <i>Job Satisfaction</i>	4.66	1.23	-0.03	0.02	0.14*	0.05	0.00	0.06	-0.01	-0.16*	
10. <i>Actual Turnover</i>	0.20	0.40	-0.13*	0.01	0.02	0.04	-0.03	0.04	-0.08	0.06	0.17**

Note. SD, standard deviation.

* $p < 0.05$; ** $p < 0.01$.

been associated with job satisfaction (Judge et al. 2001), we received information from the HR department on whether an employee had received an award for exceptional performance in the year prior to data collection, which 27 employees did (12% of the sample).¹ Finally, to differentiate our effects from those predicted by the commute impedance model, we controlled for levels of job stress with four items adapted from Motowidlo et al. (1986) ($\alpha = 0.85$): “My job is extremely stressful,” “Very few stressful things happen to me at work” (reversed), “I feel a great deal of stress because of my job,” and “I almost never feel stressed because of my work” (reversed).²

Results

Table 1 reports means, standard deviations, and correlations for the study variables. First, we conducted a confirmatory factor analysis with maximum likelihood estimators to examine the factor structure of the variables. The expected three-factor structure (i.e., trait self-control, job satisfaction, and job stress as separate factors) showed a better fit with the data than a two-factor ($\Delta\chi^2 = 371.04$, $p < 0.001$) or one-factor ($\Delta\chi^2 = 624.03$, $p < 0.001$) structure, and all variables had statistically significant factor loadings in the expected direction.

Hypothesis 1 posited that trait self-control moderates the relationship between commuting time and job satisfaction, such that employees with lower trait self-control are more likely to be negatively affected by lengthy commutes. To test this hypothesis, we conducted a regression analysis, entering commuting time as the independent variable, trait self-control as the moderator, and job satisfaction as the outcome variable. As Table 2 shows, we found a statistically significant interaction between commuting time and trait self-control on job satisfaction ($B = 0.014$, $SD = 0.094$, $p = 0.01$). The relationship between commuting time and job satisfaction was statistically significant for employees with low trait self-control ($-1 SD$, $B = -0.28$, $SE = 0.14$, $p = 0.04$) and not for employees with

high levels of trait self-control ($+1 SD$, $B = 0.14$, $SE = 0.11$, $p = 0.24$) as depicted in Figure 2. Hence, employees with lower trait self-control were negatively affected by lengthy commutes, whereas employees with higher trait self-control were not. For every 15-minute commuting time increase, the job satisfaction of employees with low trait self-control dropped by 0.26 points (on a 1–7 scale).³

We next tested whether the moderating effect of trait self-control on the relationship between commuting time and job satisfaction influenced an employee’s likelihood of leaving the organization. In a moderated mediation model, we used commuting time as the independent variable, trait self-control as the moderator, job satisfaction as the mediator, and actual turnover six months later as the dependent variable. We found a statistically significant indirect effect of commuting time on turnover, through job satisfaction and depending on trait self-control. For employees who have low trait self-control, a bootstrap analysis with 5,000 bias-corrected samples

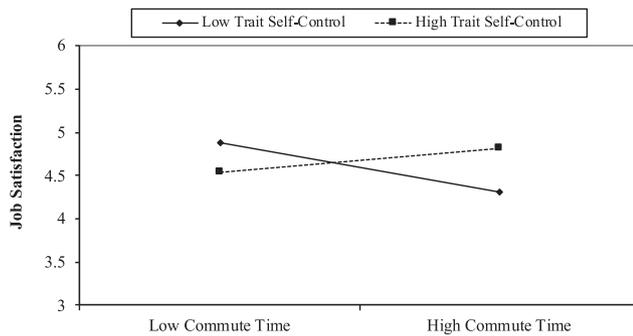
Table 2. Study 1: Moderated Regression Analysis

Predictor variables	Job satisfaction	
	B	SE
<i>Age</i>	0.029	0.016
<i>Female</i>	0.131	0.166
<i>Tenure</i>	-0.001	0.002
<i>Hierarchy Level</i>	-0.028	0.086
<i>Performance Award</i>	0.005	0.261
<i>Job Stress</i>	-0.176**	0.066
<i>Commuting Time</i>	-0.002	0.003
<i>Trait Self-Control</i>	-0.013	0.147
Interaction (<i>Commuting Time</i> × <i>Self-Control</i>)	0.014**	0.005
N	225	
F	1.56	
R ²	0.055	

Note. Commuting time and trait self-control were centered prior to analyses. SE, standard error.

** $p < 0.01$.

Figure 2. Study 1: Relationship Between Commuting Time and Job Satisfaction as a Function of Trait Self-Control



Note. Only the slope for low trait self-control (-1 SD) is statistically significant ($B = -0.28$, $SE = 0.14$, $p = 0.04$), whereas the slope for high trait self-control ($+1$ SD) is not statistically significant ($B = 0.14$, $SE = 0.11$, $p = 0.23$).

showed that the confidence interval for the indirect effect of commuting time on turnover (through job satisfaction) did not include 0 ($estimate = 0.02$, $boot SE = 0.011$, Confidence Interval (CI)_{95%} = 0.004, 0.049). For those who have high trait self-control, however, the confidence interval included 0 ($estimate = -0.01$, $boot SE = 0.009$, CI_{95%} = -0.035 , 0.002). Therefore, lengthy commutes put employees with low trait self-control in peril of quitting their job because of lower job satisfaction but left employees with high self-control unaffected.

Summary

The aim of this study was to test whether the relationship between commuting time and job satisfaction is moderated by levels of trait self-control and whether this has a downstream consequence for actual turnover six months after the initial measurement. The findings offer support for Hypothesis 1, suggesting that those with longer commutes experience lower job satisfaction to the extent that they lack high levels of trait self-control, which in turn, leads to increased levels of turnover. Hence, compared with those with lower trait self-control, employees with longer commutes and higher trait self-control are less likely to leave their organization because of their relatively higher levels of job satisfaction.

Study 2

Study 2 aimed to provide further support for the boundary work inherent in the commute to work. First, we aimed to provide further support for the finding that employees with higher trait self-control are less negatively affected by longer commutes (Hypothesis 1). Next, we sought to test whether employees who experience greater work-family conflict are more negatively affected by longer commutes (Hypothesis 2). Further, we aimed to test whether employees' engagement in role-clarifying prospection moderates

the aversive effect of longer commutes (Hypothesis 3), whether employees with higher trait self-control are more likely to engage in role-clarifying prospection (Hypothesis 4), and whether the attenuating effect of role-clarifying prospection on longer commutes is stronger for employees with greater work-family conflict (Hypothesis 5). To address these questions, we conducted a field study at a financial services firm located in Latin America and used the translation procedure outlined by Schaffer and Riordan (2003) to adapt our measures to Spanish.

Method

Sample and Procedures. The firm's HR department selected 4,800 employees at random from its larger employee pool and informed them that they would be contacted by an outside research team. We subsequently emailed invitations to these employees asking them to participate in a study that was aimed at improving their workplace. Of the invited employees, 1,068 responded to the survey and had HR information that could be matched (response rate: 22.31%; $M_{age} = 35.60$, $SD_{age} = 7.77$; 63% female). Respondents had worked at the firm for an average of 10.99 years ($SD = 8.79$). We compared the demographics of respondents and nonrespondents and found no differences in age ($nonrespondents M = 35.37$, $SD = 8.13$, $t(5,874) = 0.82$, $p = 0.41$), gender ($nonrespondents$ were 65% female, $t(5,874) = -1.22$, $p = 0.22$), or firm tenure ($nonrespondents M = 11.25$, $SD = 7.50$, $t(5,874) = -1.00$, $p = 0.32$).

Measures

Commuting Time. Participants reported their actual commuting time, which ranged from 1 to 200 minutes, with an average of 70.61 minutes ($SD = 40.00$).

Trait Self-Control. We assessed employees' trait self-control using a shortened 7-item version of the same 10-item measure as in Study 1 (Tangney et al. 2004) ($\alpha = 0.88$).

Work-Family Conflict. We collected participants' responses to three items to measure work-family conflict on a seven-point scale, ranging from one (strongly disagree) to seven (strongly agree; $\alpha = 0.73$) (Netemeyer et al. 1996), including "The demands of my job interfere with my ability to fulfill family or home responsibilities" and "My home and family responsibilities interfere with my ability to perform my job well."

Role-Clarifying Prospection During Commute. We assessed the extent to which participants engaged in role-clarifying prospection during commute to work with the item, "To what extent did you think about work during your commute to work today?,"

with response options ranging from one (not at all) to seven (to a great extent).

Job Satisfaction. We measured the extent to which participants were satisfied with their jobs using the same three-item instrument as in Study 1 (Morris and Venkatesh 2010) ($\alpha = 0.72$).

Turnover Intention. We measured employees’ desire to quit their organization using two items, “I frequently think of quitting my job” and “I am planning to search for a new job during the next 12 months” (Chen et al. 2011), rated on a scale from 1 = “Strongly Disagree” to 7 = “Strongly Agree” ($r = 0.67$).

Control Variables. We measured age and gender as control variables, same as in Study 1, given their relationship to job satisfaction (Hunt and Saul 1975, Kalleberg and Loscocco 1983, Clark et al. 1996, Clark 1997) and turnover (Griffeth et al. 2000). We also controlled for job performance—given its link to job satisfaction and turnover (Judge et al. 2001)—which we measured by asking participants to respond to four items adapted from Williams and Anderson (1991) ($\alpha = 0.86$): “I fulfil the responsibilities specified in my job description,” “I perform the tasks that are expected as part of the job,” “I meet performance expectations,” and “I adequately complete responsibilities.” In addition, we controlled for participants’ current levels of job stress with the same four-item scale as in Study 1.⁴

Results

Table 3 reports means, standard deviations, and correlations for the variables. First, we conducted a confirmatory factor analysis with maximum likelihood estimators. The expected five-factor structure (i.e., trait self-control, job performance, job stress, job satisfaction, and turnover intention as separate factors)

showed a significantly better fit with the data than a four-factor ($\Delta\chi^2 = 1,292.80, p < 0.001$), three-factor ($\Delta\chi^2 = 1,468.40, p < 0.001$), two-factor ($\Delta\chi^2 = 4,159.90, p < 0.001$), or one-factor ($\Delta\chi^2 = 5,273.40, p < 0.001$) structure, and all variables had statistically significant factor loadings in the expected direction.

We first tested Hypothesis 1 (i.e., whether trait self-control moderated the relationship between commuting time and job satisfaction and in turn, turnover intention). The results showed that the interaction effect for commuting time and trait self-control on job satisfaction was statistically significant ($B = 0.0017, SE = 0.0007, p = 0.0096$ (see Table 4); ΔR^2 relative to model without interaction term: 0.004). Subsequent analysis revealed that the relationship between commuting time and job satisfaction was statistically significant for employees with low trait self-control ($-1 SD, B = -0.0037, SE = 0.0010, p < 0.001$) and not for those with high levels of trait self-control ($+1 SD, B = -0.0003, SE = 0.0009, p = 0.762$). We next tested whether the interaction between commuting time and trait self-control predicted turnover intention through job satisfaction. We fitted the path from the interaction of commuting time and trait self-control to job satisfaction and the path from job satisfaction to turnover intention (with 10,000 bootstrapped iterations), and we found that the indirect path from commuting time to turnover intention through job satisfaction was statistically significant for employees with low trait self-control ($-0.0074, -0.0012$) and not for those with high trait self-control ($-0.0026, 0.0021$). The results conceptually replicate the findings from Study 1.⁵

In Hypothesis 2, we suggested that employees with greater work-family conflict are more likely to be negatively affected by longer commutes. To test this, we regressed the interaction between commuting time and work-family conflict on job satisfaction. The results showed a statistically significant effect

Table 3. Study 2: Correlations for Study Variables

	1	2	3	4	5	6	7	8	9
1. <i>Commuting Time</i>									
2. <i>Job Satisfaction</i>	-0.09**								
3. <i>Trait Self-Control</i>	-0.01	0.26***							
4. <i>Age</i>	0.01	0.12***	0.03						
5. <i>Female</i>	0.08**	0.04	0.09**	0.03					
6. <i>Tenure</i>	-0.01	0.04	0.03	0.65***	0.06				
7. <i>Job Stress</i>	0.05	-0.36***	-0.17***	0.05	0.10**	0.07*			
8. <i>Self-Rated Performance</i>	-0.01	0.26***	0.31***	0.04	0.03	0.04	-0.23***		
9. <i>Role-Clarifying Prospection</i>	-0.14***	0.38***	0.25***	0.06	0.00	0.05	-0.27***	0.18***	
10. <i>Work-Family Conflict</i>	0.10**	-0.41***	-0.33***	-0.03	-0.16***	0.01	0.39***	-0.28***	-0.26***

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Table 4. Study 2: Moderated Regression Analysis
 (Dependent Variable: *Job Satisfaction*)

	Model 1	Model 2	Model 3
(Intercept)	6.380*** (0.059)	5.713*** (0.162)	5.587*** (0.151)
<i>Commuting Time</i>	-0.002** (0.001)	-0.002** (0.001)	-0.002** (0.001)
<i>Trait Self-Control</i>	0.128* (0.055)	0.122* (0.055)	0.043 (0.052)
<i>Commuting Time</i> × <i>Trait Self-Control</i>	0.002** (0.001)	0.002** (0.001)	0.002** (0.001)
<i>Age</i>		0.021*** (0.005)	0.021*** (0.005)
<i>Female</i>		0.050 (0.061)	0.117* (0.057)
<i>Tenure</i>		-0.008+ (0.004)	-0.007 (0.004)
<i>Job Stress</i>			-0.311*** (0.028)
<i>Self-Rated Performance</i>			0.137*** (0.031)
R^2	0.083	0.100	0.221
Adjusted R^2	0.080	0.094	0.215
Number of observations	1,068	1,068	1,068
RMSE	0.954	0.946	0.881

Notes. Commuting time and trait self-control were centered prior to analyses. RMSE, root mean square error.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$; + $p < 0.10$.

($B = -0.0013$, $SE = 0.0006$, $p = 0.044$ (see Table 5); ΔR^2 relative to model without interaction term: 0.002). Subsequent simple slopes analysis suggested that for employees with less work-family conflict, the relationship between commuting time and job satisfaction was not statistically significant ($B = 0.0001$, $SE = 0.0009$, $p = 0.973$). However, for employees with greater work-family conflict, longer commutes had a statistically significant relationship with job satisfaction ($B = -0.0026$, $SE = 0.009$, $p = 0.005$), such that a longer commute was related to lower job satisfaction. We next investigated whether the interaction between commuting time and work-family conflict predicted turnover intention through job satisfaction (with 10,000 bootstrapped iterations) and found that the indirect path from commuting time to turnover intention through job satisfaction was statistically significant for employees with greater work-family conflict (-0.0056 , -0.0003) and not for those with less work-family conflict (-0.0016 , 0.0019). These results provide support for Hypothesis 2.

We next aimed to test Hypothesis 3, which stated that role-clarifying prospecting moderates the relationship between commuting time and job satisfaction. To provide evidence for this hypothesis, we conducted a regression with commuting time as the independent variable, role-clarifying prospecting as

the moderator, and job satisfaction as the dependent variable and found a statistically significant interaction effect ($B = 0.0013$, $SE = 0.0006$, $p = 0.042$ (see Table 6); ΔR^2 relative to model without interaction term: 0.002). Subsequent analyses showed that the relationship between commuting time and job satisfaction was statistically significant for employees with low levels of role-clarifying prospecting ($-1 SD$, $B = -0.0025$, $SE = 0.0010$, $p = 0.009$) and not for those with high levels ($+1 SD$, $B = 0.0002$, $SE = 0.0009$, $p = 0.865$). We next tested whether the interaction between commuting time and role-clarifying prospecting predicted turnover intention through job satisfaction. We fitted the path from the interaction of commuting time and role-clarifying prospecting to job satisfaction and the path from job satisfaction to turnover intention (with 10,000 bootstrapped iterations) and found that the indirect path from commuting time to turnover intention through job satisfaction was statistically significant for employees with low role-clarifying prospecting (-0.0068 , -0.0003) and not for those with high role-clarifying prospecting (-0.0016 , 0.0024). These results provide support for Hypothesis 3.

In Hypothesis 4, we suggested that employees with higher trait self-control are more likely to engage in role-clarifying prospecting during their commute. A regression with trait self-control as the independent variable and role-clarifying prospecting as the dependent variable showed that trait self-control was positively related to employees' likelihood of engaging in prospecting ($B = 0.1762$, $SE = 0.0292$, $p < 0.001$) (see Table 7). Hypothesis 4 was thus supported.

Lastly, to provide support for Hypothesis 5, we tested whether the interaction of commuting time and role-clarifying prospecting is further qualified by the extent of work-family conflict that participants experience. To investigate this, we draw on Iacobucci et al. (2015), who suggest that median splits can be preferable in situations where multicollinearity between predictor variables is low, a condition that the current setting fulfills. We therefore conducted a median split of the sample by work-family conflict and reran the same regression as before, with commuting time as the independent variable, role-clarifying prospecting as the moderator, and job satisfaction as the dependent variable. The analysis showed that the interaction between commuting time and role-clarifying prospecting was not statistically significant for participants with less work-family conflict ($B = -0.0001$, $SE = 0.0008$, $p = 0.971$). However, the interaction between commuting time and role-clarifying prospecting was marginally significant for participants with greater work-family conflict ($B = 0.0020$, $SE = 0.0011$, $p = 0.066$), such that for this group of employees, the relationship between commuting time and job satisfaction was statistically significant for employees

Table 5. Study 2: Moderated Regression Analysis (Dependent Variable: *Job Satisfaction*)

	Model 1	Model 2	Model 3
(Intercept)	6.301*** (0.057)	5.722*** (0.154)	5.620*** (0.149)
<i>Commuting Time</i>	−0.001+ (0.001)	−0.001+ (0.001)	−0.001* (0.001)
<i>Work-Family Conflict</i>	−0.318*** (0.057)	−0.318*** (0.057)	−0.175** (0.057)
<i>Commuting Time</i> × <i>Work-Family Conflict</i>	−0.001+ (0.001)	−0.001+ (0.001)	−0.001* (0.001)
<i>Age</i>		0.019*** (0.005)	0.020*** (0.004)
<i>Female</i>		−0.038 (0.058)	0.046 (0.057)
<i>Tenure</i>		−0.005 (0.004)	−0.005 (0.004)
<i>Job Stress</i>			−0.235*** (0.030)
<i>Self-Rated Performance</i>			0.130*** (0.030)
R^2	0.172	0.186	0.253
Adjusted R^2	0.169	0.182	0.247
Number of observations	1,068	1,068	1,068
RMSE	0.906	0.900	0.863

Note. Commuting time and trait self-control were centered prior to analyses.

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$; + $p < 0.10$.

with low (−1 *SD*) levels of role-clarifying prospection ($B = -0.0035$, $SE = 0.0015$, $p = 0.021$) and not for those with high levels of role-clarifying prospection (+1 *SD*, $B = 0.0005$, $SE = 0.0017$, $p = 0.766$). Subsequent analysis showed that for employees with greater work-family conflict, the indirect path from commuting time to turnover intention through job satisfaction (with 10,000 bootstrapped iterations) was statistically significant when they engaged in low levels of role-clarifying prospection (−0.0089, −0.0023) and not when they engaged in high levels of role-clarifying prospection (−0.0037, 0.0045). Thus, engaging in role-clarifying prospection was especially effective in offsetting the negative effects of longer commutes for participants with higher levels of work-family conflict, providing support for Hypothesis 5.

Summary and Discussion

In Study 2, we aimed to provide further empirical evidence for the boundary work prompted by the commute to work. Replicating the results from Study 1, we found that the relationship between lengthy commutes and job satisfaction is moderated by levels of trait self-control, such that higher levels of trait self-control attenuate the negative effect of lengthy commutes (Hypothesis 1). Second, we found that the aversive effects of lengthy commutes are stronger for employees with greater work-family conflict (Hypothesis 2). In line

with our theory, we further found that lengthy commutes are less aversive for employees who engage in role-clarifying prospection (Hypothesis 3). Finally, and as expected, employees with higher trait self-control engage in more role-clarifying prospection (Hypothesis 4), and role-clarifying prospection has a stronger ameliorating effect for employees with greater work-family conflict (Hypothesis 5). Potential concerns arising from common method variance—given that all data were collected at one time point—are somewhat alleviated as we tested interaction effects that reduce the potential influence of common method variance on our results (Podsakoff et al. 2003).

Although Studies 1 and 2 provide support for our key hypotheses, one concern pertaining to potential reverse causality remains. Both prior research and correlations in the current studies indicate that individuals with higher levels of trait self-control are also more likely to report higher job satisfaction (see also de Ridder et al. 2012 for a more comprehensive review). Because thinking about their work may also be more enjoyable for employees with higher trait self-control, they may spend more time during their commute to work engaging in role-clarifying prospection. We provided analyses controlling for performance (in Studies 1 and 2) and hierarchy level (Study 1) to show that the moderating effect of trait self-control on the relationship between commuting

Table 6. Study 2: Moderated Regression Analysis (Dependent Variable: *Job Satisfaction*)

	Model 1	Model 2	Model 3
(Intercept)	6.276*** (0.058)	5.639*** (0.157)	5.563*** (0.148)
<i>Commuting Time</i>	-0.001 (0.001)	-0.001 (0.001)	-0.001 (0.001)
<i>Role-Clarifying Prospection</i>	0.284*** (0.060)	0.282*** (0.060)	0.173** (0.057)
<i>Commuting Time</i> × <i>Role-Clarifying Prospection</i>	0.001+ (0.001)	0.001+ (0.001)	0.001* (0.001)
<i>Age</i>		0.020*** (0.005)	0.020*** (0.004)
<i>Female</i>		0.085 (0.058)	0.129* (0.055)
<i>Tenure</i>		-0.009* (0.004)	-0.008 (0.004)
<i>Job Stress</i>			-0.266*** (0.028)
<i>Self-Rated Performance</i>			0.151*** (0.029)
R^2	0.147	0.162	0.260
Adjusted R^2	0.144	0.157	0.255
Number of observations	1,068	1,068	1,068
RMSE	0.920	0.913	0.859

Note. Commuting time and role-clarifying prospection were centered prior to analyses.
 * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$; + $p < 0.10$.

time and job satisfaction holds even when accounting for performance and rank. To explicitly address the issue of reverse causality, we designed Study 3, in which individuals were randomly assigned to a condition where they were prompted to engage in role-clarifying prospection.

Study 3

Is role-clarifying prospection a boundary management strategy that all commuters can employ to counter the detrimental effects of commuting on job satisfaction? The goals of Study 3 were to generalize the findings of Studies 1 and 2 and to provide causal evidence in support of the idea that role-clarifying prospection, as a boundary management strategy, can offset the negative effect of commute length on job satisfaction and turnover (Hypothesis 3), particularly for employees with greater work-family conflict (Hypothesis 5). The only aspect that differed between employees was the random assignment to conditions, which allows us to explore the causal direction we propose. We designed four experimental conditions to investigate whether engaging in role-clarifying prospection during the morning commute offsets the aversive effects of lengthy commutes. Contrasting the role-clarifying prospection condition with three control conditions allowed us to test whether employees can offset commuting-related detriments by engaging in role-clarifying prospection.

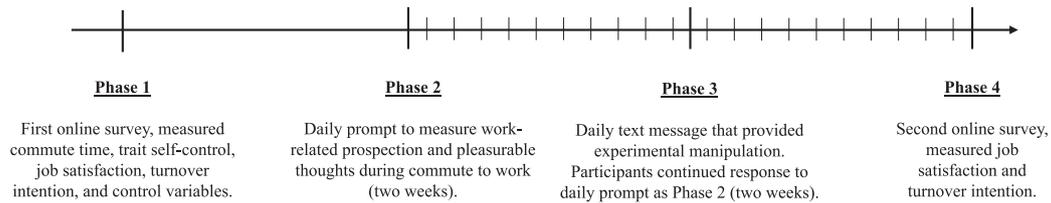
Method

Sample and Procedures. We recruited full-time employees in collaboration with ClearVoice, a professional online survey recruiter, for a study that ran over the course of four weeks (see Figure 3 for the timeline). A total of 443 of the 600 invited employees ($M_{age} = 42.23$, $SD_{age} = 10.01$; 47.5% female) provided complete responses, with a final response rate of 74%.

Table 7. Study 2: Role-Clarifying Prospection as Predicted by Trait Self-Control

	Model 1	Model 2	Model 3
(Intercept)	0.054+ (0.029)	-0.139 (0.140)	-0.237+ (0.136)
<i>Trait Self-Control</i>	0.236*** (0.028)	0.236*** (0.028)	0.176*** (0.029)
<i>Age</i>		0.006+ (0.004)	0.007* (0.004)
<i>Female</i>		-0.041 (0.060)	0.011 (0.059)
<i>Job Stress</i>			-0.225*** (0.029)
<i>Self-Rated Performance</i>			0.070* (0.032)
R^2	0.061	0.064	0.124
Adjusted R^2	0.060	0.061	0.120
Number of observations	1,068	1,068	1,068
RMSE	0.945	0.944	0.914

* $p < 0.05$; *** $p < 0.001$; + $p < 0.10$.

Figure 3. Study 3: Timeline of Experimental Procedure

To address possible problems with self-selection, we compared the demographic information provided by respondents and nonrespondents and found no difference in age (*nonrespondents'* $M = 42.25$, $SD = 10.11$, $t(598) = -0.10$, *ns*) or gender (*nonrespondents'* $M = 1.51$, $SD = 0.50$, $t(598) = 0.67$, *ns*).

In phase 1, participants received an initial online survey that included questions about their commute, trait self-control, job satisfaction, turnover intention, demographics, and control variables. In phase 2, participants received daily text-message prompts on their mobile phone approximately 30 minutes after arriving at their workplace every workday for four weeks. The prompts invited them to answer a question regarding the extent to which they engaged in role-clarifying prospection on their commute to work. Participants' responses to the daily online surveys served as a baseline and manipulation check for the intervention conducted in phase 3.

In phase 3, two weeks after the start of the study, participants were randomly allocated to one of four experimental conditions: either the treatment condition (role-clarifying prospection) or one of the three control conditions (role-unrelated thoughts, mixed, or no prompt). All participants received a text message prior to their commute to work, but the content of this text message differed by condition.

In the *role-clarifying prospection condition*, instructions were based on sentences that we collected from commuters that were coded as role-clarifying prospection in a prior pilot study. Employees were specifically asked to engage in role-clarifying prospection with the following prompt: "Many people find it helpful to focus on making a plan of their workday, or week ahead and reflect on how these plans will help them achieve their personal and career goals. We would like to invite you to do that during your commute, too. Ask yourself, for example, what are the strategies you have for the week to be productive? What steps can you take today and during this week to get closer to your work goals, as well as your personal and career goals? Please use your commuting time to focus on your goals and make plans about what to do."

We prompted participants in the *role-unrelated thoughts condition* to use their commuting time to engage in thoughts and activities that they find enjoyable. Specifically, employees received the following prompt: "Many

people find it helpful to do something enjoyable and relaxing on their way to work. We would like to invite you to do that during your commute, too. For example, you could listen to music, read the news, or catch up on social media—anything that you inherently enjoy is fine. Please use your commuting time to relax and do something enjoyable."

In the *mixed condition*, we highlighted that employees could use the commute for both role-clarifying prospection and relaxing thoughts and activities. The two are not mutually exclusive (Kluger 1998); therefore, a combination of both serves as a valid comparison with role-clarifying prospection or role-unrelated thoughts alone. In the mixed condition, employees were sent the following text message: "Many people find a combination of activities helpful. They make a plan of their workday or week ahead and reflect on how these plans will help them achieve their personal and career goals, and they also do something enjoyable and relaxing on their way to work. We would like to invite you to do that during your commute, too. Ask yourself, for example, what are the strategies you have for the week to be productive? What steps can you take today and during this week to get closer to your work goals, as well as your personal and career goals? Also do something that you inherently enjoy such as listening to music, reading the news, or catching up on social media. Please allocate some of your commuting time to focusing on your goals and making plans about what to do, and some to relaxing and doing something enjoyable."

Finally, in the *no-prompt condition*, participants received a text message that did not contain any particular prompt and that told them to do what they normally do during their commute.

In phase 4, all participants were asked to fill out a final survey that once again measured their level of job satisfaction and turnover intention.

Measures

Manipulation Checks. We measured the extent to which employees engaged in role-clarifying prospection on their commute to work in our daily surveys before and after the intervention. Consistent with Study 2 and our theoretical model, participants received a prompt each workday, approximately 30 minutes after arriving at their workplace, with the question "To what extent did

you think about work during your commute to work today?” In addition, to measure role-unrelated thoughts, participants were asked, “To what extent did you engage in pleasurable thoughts during your commute to work today?” Participants responded to both questions on a scale ranging from one (not at all) to five (to a large extent).

Commuting Time. We measured the length of employees’ commute in the initial survey. Commuting time ranged from 16 to 180 minutes, with an average of 51.54 minutes ($SD = 32.15$).⁶

Trait Self-Control. We assessed employees’ trait self-control in the initial survey using the same 10-item measure as in our prior studies (Tangney et al. 2004) ($\alpha = 0.83$).

Work-Family Conflict. We collected participants’ responses in the first phase to measure work-family conflict with the same two items as in Study 2 ($r = 0.73$) (Netemeyer et al. 1996).

Job Satisfaction. We measured job satisfaction in both the initial and the final surveys using a three-item scale, as in Studies 1 and 2 (Morris and Venkatesh 2010) ($\alpha = 0.82$).

Turnover Intention. We measured employees’ desire to quit their organization in both the initial and the final surveys using the same two-item scale as in Study 2 (Chen et al. 2011) ($r = 0.87$).

Control Variables. We controlled for employees’ age and gender as in the first and second studies, given their link to job satisfaction and turnover. In addition, we asked participants to indicate their levels of positive and negative trait affectivity (Watson and Clark 1999) as both are linked with job satisfaction (Shaw 1999,

Connolly and Viswesvaran 2000). Finally, we asked employees to report how they commute. Most participants drove to work (85.41%) followed by train (5.08%), bus (4.36%), and car travel as a passenger (1.74%) as means of transportation to work.

Results

Table 8 reports means, standard deviations, and correlations for the variables in the initial survey.

Analysis Strategy. We first checked whether there were any differences in commuting time, trait self-control, or job satisfaction between conditions prior to the intervention. This was not the case, suggesting that the randomized allocation of participants to the four conditions had created four groups of participants who were not statistically significantly different from each other. In order to examine the causal effect of our interventions, we aggregated participants’ responses on the daily measures over the course of weeks 1 and 2 and then proceeded to do the same for weeks 3 and 4 in all our analyses.

Manipulation Checks. We tested whether there were differences between conditions in terms of the extent to which participants engaged in role-clarifying prospection or role-unrelated thoughts on their commute to work *prior* to the intervention. We did not find significant differences, suggesting that the baseline for each group of participants was not different.⁷

Next, we examined whether there were any differences between the treatment and the three control conditions in terms of the extent to which participants engaged in role-clarifying prospection on their commute to work *after* the intervention. We first dummy coded each condition and then conducted a linear regression with conditions as the independent variable and role-clarifying prospection in weeks 3 and 4 as the dependent variable. As Table 9 shows, we found that in

Table 8. Study 3: Means, Standard Deviations, and Correlations for Study Variables (Initial Survey)

	Mean	SD	1	2	3	4	5	6	7	8
1. <i>Commuting Time</i> (minutes)	51.05	30.46								
2. <i>Job Satisfaction</i>	4.91	1.26	-0.10*							
3. <i>Turnover Intention</i>	2.69	1.18	0.08	-0.71**						
4. <i>Trait Self-Control</i>	3.72	0.71	-0.01	0.18**	-0.14**					
5. <i>Work-Family Conflict</i>	2.86	1.45	0.04	-0.18**	0.31**	-0.30**				
6. <i>Age</i>	42.21	10.01	-0.11*	-0.05	0.13**	0.22**	0.11*			
7. <i>Female</i>	0.48	0.5	0.03	-0.05	0.06	-0.08	0.01	0.05		
8. <i>Positive Affect</i>	3.27	0.92	0.03	0.27**	-0.17**	0.17**	0.01	-0.01	0.27**	
9. <i>Negative Affect</i>	1.46	0.66	0.01	-0.17**	0.28**	-0.44**	0.41**	0.20**	-0.17**	0.06

Note. SD, standard deviation.

* $p < 0.05$; ** $p < 0.01$.

Table 9. Study 3: Means and Standard Deviation for Role-Clarifying Prospection and Role-Unrelated Thoughts (Weeks 3 and 4) by Condition

Condition	Role-clarifying prospection		Role-unrelated thoughts	
	Mean	SD	Mean	SD
Role-clarifying prospection	2.81	0.98	2.83	0.99
Role-unrelated thoughts	2.44	0.94	2.93	0.94
Mixed	2.68	0.92	2.84	0.88
Control	2.64	0.90	2.79	0.99

Note. SD, standard deviation.

comparison with the no-prompt condition, role-clarifying prospection was higher in the condition that prompted role-clarifying prospection ($B = 0.20$, $SE = 0.08$, $p = 0.02$), as expected, and lower in the condition that prompted role-unrelated thoughts ($B = -0.20$, $SE = 0.08$, $p = 0.02$). In addition, role-clarifying prospection was not statistically significantly different between the no-prompt condition and the mixed condition ($B = 0.03$, $SE = 0.08$, $p = 0.70$). Thus, our manipulation was successful in increasing levels of role-clarifying prospection during the morning commute but only in the condition that prompted role-clarifying prospection alone. We also ran analyses controlling for role-clarifying prospection in weeks 1 and 2, and the results did not change in terms of direction or significance.

We repeated the same analysis to test if there were any differences between conditions in terms of the extent to which participants engaged in role-unrelated thoughts on their commute to work *after* the intervention. In comparison with the no-prompt condition, only participants in the role-unrelated thoughts condition indicated higher levels of role-unrelated thoughts ($B = 0.21$, $SE = 0.08$, $p = 0.01$); conversely, there was no statistically significant difference for the role-clarifying prospection ($B = 0.01$, $SE = 0.08$, $p = 0.90$) or mixed ($B = 0.05$, $SE = 0.08$, $p = 0.52$) (see Table 9) condition. We also ran analyses controlling for role-unrelated thoughts in weeks 1 and 2, and the results did not change in terms of direction or significance.

Hypothesis Testing. We next tested Hypothesis 3, investigating whether participants who were prompted to engage in role-clarifying prospection were less negatively affected by longer commutes than participants in the other conditions. We conducted a regression analysis with commuting time as the independent variable; condition as the moderator (coded using the Helmert method); job satisfaction at time point 2 as the dependent variable; and age, gender, and trait affectivity (positive and negative) as control variables.⁸ This analysis reveals that the relationship between commuting time and job satisfaction following the intervention was statistically significant for two conditions in comparison with the no-prompt condition. First, for

employees in the role-clarifying prospection condition, commuting time was statistically significantly related to *higher* levels of job satisfaction at time point 2 ($B = 0.012$, $SE = 0.005$, $p = 0.02$) (see Table 10). This finding provides support for Hypothesis 3. Second, for employees in the role-unrelated thoughts condition, commuting time was marginally associated with *lower* levels of job satisfaction ($B = -0.011$, $SE = 0.006$, $p = 0.08$). For those in the mixed condition, there was no statistically significant effect of the condition on job satisfaction ($B = 0.005$, $SE = 0.005$, $p = 0.31$).

We next tested the effect of the intervention on turnover intention through job satisfaction, comparing participants in the two conditions that differed from each other in role-clarifying prospection and role-unrelated thoughts (i.e., participants in the role-clarifying prospection condition with participants in the role-unrelated thoughts condition). To test for the indirect effect, we ran a mediation analysis for this subset of participants ($n = 221$) using the interaction between condition and commuting time as the predictor variable, job satisfaction as the mediator, and turnover intention as the outcome variable. We found a marginally significant indirect effect ($CI_{90\%} = 0.0069, 0.0830$; $p = 0.06$), such that participants in the role-unrelated thoughts condition were more likely to indicate higher turnover intention than were participants in the role-clarifying prospection condition.

We repeated all analyses without control variables, and the results remained unchanged in terms of direction and significance. In addition, we reran all

Table 10. Study 3: Relationship of Commuting Time on Job Satisfaction by Condition

Condition	Effect	SE
Role-clarifying prospection	0.012*	0.005
Role-unrelated thoughts	-0.011 ⁺	0.006
Mixed	0.005	0.005

Notes. The comparison group is the control condition. Condition is coded using the Helmert method. SE, standard error.

* $p < 0.05$; ⁺ $p < 0.10$.

analyses with and without entering job satisfaction at baseline as a control variable, and this did not alter our results.⁹

Next, we tested whether the effect of role-clarifying prospecting is further moderated by the extent of work-family conflict that participants experience, in line with Hypothesis 5. To do so, we conducted a median split of participants by work-family conflict and reran the same regression as before, with commuting time as the independent variable, condition as the moderator (coded using the Helmert method), and job satisfaction at time point 2 as the dependent variable. The analysis reveals that for participants with less work-family conflict, there was no statistically significant interaction between commuting time and the role-clarifying prospecting condition ($B = 0.011$, $SE = 0.010$, $p = 0.27$). However, for participants with greater work-family conflict, the interaction between commuting time and the role-clarifying prospecting condition was statistically significant ($B = 0.020$, $SE = 0.008$, $p = 0.017$), such that participants in this condition who experienced greater work-family conflict reported *higher* levels of job satisfaction with longer commutes. No other interaction between commuting time and condition was statistically significant in this analysis. These analyses indicate that the intervention to engage in role-clarifying prospecting was particularly effective in offsetting the negative effects of longer commutes for participants who reported higher levels of work-family conflict, in line with Hypothesis 5.

Summary and Discussion

In Study 3, we found causal evidence that role-clarifying prospecting attenuates the negative effect of commuting time on job satisfaction and turnover intention. Specifically, after we prompted some commuters to engage in role-clarifying prospecting during their daily commute to work for two weeks, these individuals did not suffer decrements in job satisfaction with lengthy commutes, in contrast to commuters in the three control conditions. Thus, our findings suggest that role-clarifying prospecting can be employed as a boundary management strategy by individuals with varying levels of trait self-control to buffer the aversive effects of lengthy commutes. In addition, employees who experience greater work-family conflict are more likely to benefit from engaging in role-clarifying prospecting.

Participants in the mixed condition were not more likely to engage in increased role-clarifying prospecting or role-unrelated thoughts. It is possible that commuters in the mixed condition were unable to engage in both role-clarifying prospecting and role-unrelated thoughts. Alternatively, the two different types of thoughts might have cancelled each other out, leading to no difference in the extent to which participants engaged in role-clarifying prospecting. In any case, participants in the mixed condition

were no less aversively affected by longer commutes compared with those in the role-clarifying prospecting condition and showed a similar pattern of results as participants in the no-prompt condition. Similarly, participants who engaged in role-unrelated thoughts were more likely to be negatively affected by longer commutes.

In addition, the results of Study 3 provide further support for the relatively stronger effects of the intervention of role-clarifying prospecting on employees with greater work-family conflict. In line with Hypothesis 5 and our theoretical framework, we found that employees who experience greater work-family conflict face larger role transitions during their morning commute. By prompting them to engage in role-clarifying prospecting, the experimental manipulation allowed them to more effectively transition from their home role to their work role, resulting in a reduction of the negative impact of lengthy commutes.

General Discussion

Integrating theories of boundary work, self-control, and work-family conflict in the psychological and organizational sciences, we proposed that role-clarifying prospecting can buffer against the negative consequences of lengthier commutes on job satisfaction and turnover intentions. Across three studies, we provided a novel perspective on the relationship between commuting time and job-related outcomes. We theorized and found that longer commutes were more aversive for employees with lower trait self-control and greater work-family conflict, leading to decreased job satisfaction and increased turnover. However, role-clarifying prospecting—a boundary management strategy that facilitates the role transition during the commute to work—attenuated the relationship between lengthy commutes and key job outcomes (job satisfaction and employee turnover). Employees with higher levels of trait self-control were more likely to engage in role-clarifying prospecting, and employees who experienced greater work-family conflict were more likely to benefit from engaging in this type of boundary management strategy.

Theoretical Contribution

Our research advances the literature on boundary theory. We posited that work-related outcomes are affected not only by what happens *at* work but also, by what happens *outside* of work. A wealth of research, especially in the field of work recovery, has investigated how what employees do *during* (Troughakos and Hideg 2009, Troughakos et al. 2014) or *after* work (Sonnetag 2001, 2003, 2012; Lanaj et al. 2014) can affect them. After all, many predictors of job satisfaction and turnover, such as psychological detachment from work and work-family conflict, fall into these categories (Edwards and Rothbard 2000, Rothbard et al. 2005,

Sonnentag 2012, Kubicek and Tement 2016). Our research adds to these insights by demonstrating that the time period *before* work can help offset the negative effects of lengthy commutes, thus increasing the job satisfaction of employees and reducing turnover.

Specifically, we challenge the notion that the time spent on commuting is necessarily harmful and should thus have negative consequences for our job attitudes, conceptualizing commuting as a unique opportunity for employees to engage in boundary work to facilitate the transition from their home role to their work role. As a result, our research furthers our understanding of a type of daily boundary work between home and work by identifying a specific boundary management strategy (i.e., role-clarifying prospection), which in turn, reduces the negative consequences arising from longer commutes.

Our theoretical framework also extends boundary theory by highlighting that there may be substantial variance in whether employees can transition effectively from one role to another during their commute. In this sense, our research also offers a novel way of thinking about boundary work (Ashforth et al. 2000) by portraying role transitions as matters of the mind and suggesting that role-clarifying prospection can help effectively manage role boundaries and psychologically facilitate work role entry. Here, we identify two theoretically relevant boundary conditions: trait self-control and work-family conflict.

First, we advanced boundary theory by integrating perspectives from research on self-control (Baumeister et al. 1998, de Ridder et al. 2012). Given that role transitions represent an effortful process that inherently involves self-regulation, prior research has called for a deeper understanding of the role of self-regulatory resources as a boundary management strategy (Allen et al. 2014). Our finding that employees with higher levels of trait self-control are less negatively affected by longer commutes adds an important nuance to previous literature, which offered incomplete insights into the relationship between commuting length and job satisfaction (e.g., Zhang and Feinzig 2016, Chatterjee et al. 2017). In addition, our work extends the literature on self-control by illustrating that individuals with higher levels of trait self-control are more likely to identify situations where deploying cognitive strategies that allow them to achieve their goals is applicable (Myrseth and Fishbach 2009).

Second, the present research explored how work-family conflict shapes the commute to work and has spillover effects on work-related outcomes, such as job satisfaction and turnover intention. Past research on work-family conflict focused primarily on how assuming one role (work or family) may interfere with accomplishing the other role. Crossrole thoughts

can represent discrete episodes where an individual currently engaged in one role, such as work, experiences off-topic thoughts regarding a different role, such as family (Smit et al. 2016), and can lead to negative outcomes for employees (Sonnentag 2001, Sonnentag and Binnewies 2013, Lanaj et al. 2014, Dumas and Perry-Smith 2018). Our work broadens the scope of this research by examining a possible spillover of work-family conflict into individuals' experience of role transitions during their commute. Specifically, our research suggests that employees, and particularly those with greater work-family conflict, may have some agency in ameliorating the aversive effects of lengthy commutes (Ashforth et al. 2000) via role-clarifying prospection.

These individual differences are critical in understanding the role that the commute plays in how employees go through their home and work life. By shedding light on the ways in which these factors modulate the relationship between commuting time and job-related outcomes, we move beyond the view that any additional time spent on commuting must be taxing and provide a more nuanced view on when commuting becomes more or less depleting and how it spills over into job-related outcomes.

Limitations and Future Directions

Our studies are subject to several limitations that suggest directions for future research. First, our studies do not directly test the micromechanism through which commuting time increases the aversive experience of role coactivation. Future research could explore whether coactivating two distinct roles is aversive because it is associated with increased cognitive load (Robin et al. 2018). Viewed from this perspective, role-clarifying prospection takes on particular importance as it may facilitate role entry by increasing the ease with which employees can access their work role (Rusting and DeHart 2000, Altmann and Traflet 2002). We encourage future research to further explore the cognitive mechanisms through which role-clarifying prospection aids in making lengthy commutes less aversive.

Second, several mechanisms may underlie the ameliorating effects of trait self-control on the relationship between commuting time and job satisfaction. One possible mechanism linking trait self-control with reduced aversive impacts of lengthy commutes might be emotion regulation, or an individual's ability to control how he or she feels, particularly in challenging situations (Gross 1998, Gross and John 2003). It could be that individuals with higher trait self-control—because they are better able to control how they feel—are more adept at engaging in role-clarifying prospection. A second possibility concerns individuals' ability to manage stressors, such as those posed by commutes: that is, individuals with greater trait self-control may

be less likely to view lengthy commutes as a source of stress (LePine et al. 2005, Podsakoff et al. 2007). From this perspective, lengthy commutes would only be aversive if employees viewed them as a hindrance. Although the results of Studies 1 and 2 hold even when including job stress as an additional control variable, we encourage further work to unpack these additional possible explanations in more detail.

Third, we note two important concerns with Study 3. First, the study only tested role-clarifying prospecting in terms of work/goal planning, but there are other forms of role-clarifying prospecting that employees could adopt that could be helpful. For example, role-clarifying prospecting could take the form of merely thinking of the workday ahead *without* planning. This may already be sufficient given that even this type of role-clarifying prospecting may be sufficient in activating a work role, minimize the coactivation of identities, and facilitate role entry. Second, Study 3 does not shed insight into whether planning about goals that are *unrelated* to work could also attenuate the negative effects of lengthy commutes. Our theory would predict that this may not be sufficient, given that planning about unrelated goals to work may not minimize the coactivation of identities (or indeed, strengthen it) and thus, may not facilitate role entry. We encourage future research to further disentangle the various possible operationalizations of role-clarifying prospecting to more adequately pinpoint how and when thinking about an upcoming role is beneficial in promoting role entry.

Lastly, we discuss the generalizability of our findings. Throughout our studies, we focused our investigation on the commute *to* work. Our conceptualization of commuting as the coactivation of home and work roles that provides an opportunity for role transition does not differ substantially for the commute *from* work, but the direction of the role transition changes. Whereas role-clarifying prospecting serves as a boundary management strategy unilaterally on the way to work, it is likely that home-related prospecting is the counterpart for the commute back from work. That is, evening commutes might benefit from home-related prospecting regarding activities in one's private life, such as making plans for the evening (e.g., what to cook for dinner, what book to read to the children) (see also Dumas and Perry-Smith 2018). This transition may be fraught if the role transition is not completed by the time of arrival. For example, if individuals continue to ruminate about work-related problems at home, they may not fully enact their home role. In this case, role-unrelated thoughts—because they are distinctly nonwork related—could help employees to transition during their commute back to their home-related role.

Similarly, although we found no differences in our pattern of results across different commuting types in

Study 3, future research may need to take a broader perspective on how employees commute. The null results that we found may in large part be driven by the lack of variance in the commuting types of employees in our sample: over 85% of participants commuted by car. How employees commute may in fact have substantial implications, particularly when those commuting types drain employees' ability to engage in role-clarifying prospecting and thus, affect the quality of their thoughts. Future research might consider various naturally occurring commuting distractions (such as traffic, background music or noise, and other commuters) as well as other possible commuting activities in which employees may engage (such as socializing or learning).

Although our field experiment allowed us to shed further light onto the direction of the causal path, the longevity of the intervention remains unclear. In Study 3, participants received daily prompts to engage in role-clarifying prospecting, and the dependent variables of interest were assessed immediately after the termination of the intervention. The sustainability of the effect is especially a concern given that individuals with lower levels of trait self-control tend to have difficulties in establishing and maintaining beneficial routines (de Ridder et al. 2012, Galla and Duckworth 2015); some studies, however, have had success in teaching individuals to adopt cognitive strategies and deploy them in appropriate situations (Duckworth et al. 2016, Yeager et al. 2018). Future research could investigate whether the current intervention has sustained effects and could help individuals, particularly those with lower trait self-control, to engage in role-clarifying prospecting when commuting to work. In addition, in extending the intervention, future research could also test whether particular types of role-clarifying prospecting are linked to varied outcomes. For example, role-clarifying prospecting could involve both low-level construal (such as focusing on what employees will do when they get to work) and a high-level construal (such as focusing on long-term career goals), a distinction subsequent research could further explore.

Practical Implications

Our research offers valuable practical insights for both business leaders and employees. For leaders, the findings highlight that commute length might have variable effects on their employees. When employees have lower levels of trait self-control or high degrees of work-family conflict, longer commutes may place them at a higher risk of being less satisfied with their job and subsequently, leaving their job. The popular press is quick to warn employees that long commutes have negative consequences, but some employees—particularly those with high trait self-control—may stand to gain more

from the benefits of living farther away from work by offsetting the negative effects of commuting. Leaders can help manage especially draining commutes for employees with lower trait self-control and higher work-family conflict, either by encouraging role-clarifying prospecting during commuting or by suggesting ways to reduce commuting time, such as increased teleworking.

For employees, our findings highlight that although commuting time may be outside their control, they are nonetheless in charge of their commute. Commuting is not per se a chore to endure but can also be viewed as a useful time period. Being able to set aside some time during one's commute for role-clarifying prospecting can turn a time period that many employees rate as their least desirable of the day into a less aversive and even a potentially beneficial one. Furthermore, our research highlights the need to consider boundaries between home and work. Engaging in role-clarifying prospecting while commuting can facilitate work role entry and improve work-related outcomes.

Conclusion

The logic of the billboards that claim “If you lived here, you'd be home by now” also works in the reverse—“If you worked elsewhere, you'd be home sooner”—such that lengthy commutes may prompt employees to desire leaving their job. Our theory and research suggest that role transitions are at least to some extent at the discretion of the employee and that some employees are better able to manage the interface between home and work that commuting provides. Although commuting is a ubiquitous and widespread experience in employees' everyday life, the effects of lengthy commutes are more nuanced than previously stated. Rather than being passive actors, employees can actively shape whether the commute from home to work can serve as an effective role transition.

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Endnotes

¹ Employees receive awards to honor exceptional performance. They are nominated for an award by any employee in the organization, who must provide a rationale. Nominations are reviewed by the director of HR and the CEO. Awards are prestigious and include a cash prize. Employees can only receive one award in a 12-month timeframe.

² We reran all analyses without control variables, and the results remained unchanged in terms of direction and significance.

³ We also tested whether employees with longer commutes reported lower levels of job satisfaction. Contrary to previous studies, we did not find a significant main effect for commute time on job satisfaction:

individuals with lengthy commutes were no more likely to have lower levels of job satisfaction ($B = -0.002$, $SE = 0.003$, $p = 0.57$). This finding is in line with our reasoning that the effect of commute time on job satisfaction is contingent upon a third variable: trait self-control. Furthermore, a reasonable alternative to a linear relationship between commute time and job satisfaction is a curvilinear relationship, which implies that too short a commute is as bad as too long a commute. We thus tested for a quadratic effect of commute time on job satisfaction but found no evidence for such an effect ($p = 0.26$).

⁴ As in Study 1, we reran all analyses without control variables, and the results remained unchanged in terms of direction and significance.

⁵ We also examined whether those employees with lengthy commutes reported lower levels of job satisfaction. Unlike in Study 1, we found a statistically significant relationship ($B = -0.0022$, $SE = 0.0007$, $p = 0.0037$), such that the longer employees commuted, the less satisfied they were with their jobs. We again tested for a quadratic effect of commute time on job satisfaction but found no evidence ($p = 0.56$).

⁶ We removed one outlier, a participant who indicated commuting 270 minutes, as this was nearly three standard deviations away from the next closest participant. Keeping this participant in our sample does not alter any of our results.

⁷ We checked whether participants with higher levels of trait self-control would be more likely to engage in role-clarifying prospecting prior to the intervention. We averaged responses from weeks 1 and 2, and we specified a linear regression with trait self-control as the independent variable and role-clarifying prospecting in weeks 1 and 2 as the dependent variable. We found a statistically significant effect of trait self-control on role-clarifying prospecting prior to the intervention ($B = 0.14$, $SE = 0.07$, $p = 0.04$), such that all participants with higher levels of trait self-control were more likely to engage in role-clarifying prospecting prior to the intervention. This finding was expected based on Hypothesis 4. Next, we checked the distribution of trait self-control across the four experimental conditions and found no significant differences, suggesting that trait self-control was equally distributed across the four conditions, as expected from the randomized allocation of participants to the conditions (Hauser et al. 2017).

⁸ Hayes and Montoya (2017) suggest using the Helmert coding method, which allows comparison of one group with all other groups that are higher on a categorical variable in a path-analytic approach. When using the Helmert coding method, it is assumed that the arbitrarily numerically coded variable corresponds in ascending ordinality to the multicategorical variable of interest.

⁹ Additionally, we examined the possibility that commuters' mode of transport influences employees' ability to engage in role-clarifying prospecting, and we found no statistically significant relationship between the type of commuting and role-clarifying prospecting ($B = 0.02$, $SE = 0.03$, $p = 0.46$). We next tested whether mode of transport influences the relationships between our manipulation, commuting time, job satisfaction, and turnover intention. We ran additional analyses either controlling for mode of transport or computing additional interaction terms with mode of transport and found no significant differences in effects across different modes of transport (all p -values are >0.25). These results suggest that our hypotheses were supported regardless of the mode of transport that employees used to commute to work.

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Jon M. Jachimowicz is an assistant professor in business administration in the Organizational Behavior Unit at the Harvard Business School. He received his PhD in management

from Columbia Business School. His research focuses on passion and inequality.

Julia Lee Cunningham is an assistant professor of management and organizations at the Stephen M. Ross School of Business, University of Michigan. She received her PhD and MPP from Harvard Kennedy School. Her research is centered around the psychology of narrative, morality, and emotions.

Bradley R. Staats is a professor of operations at the Kenan–Flagler Business School at the University of North Carolina at Chapel Hill. He received his doctorate from the Harvard Business School in technology and operations management. His research examines the behavioral drivers of learning and productivity.

Francesca Gino is the Tandon Family Professor of Business Administration at Harvard Business School and the author, most recently, of *Rebel Talent: Why It Pays to Break the Rules in Work and Life*. Her research focuses on the psychology behind the decisions that people make and how they can have more productive, creative, and fulfilling lives. She received her PhD in economics and management from the Sant'Anna School of Advanced Studies.

Jochen I. Menges holds the Chair of Human Resource Management and Leadership at the University of Zurich and is a university lecturer in organizational behavior at the University of Cambridge. He received his PhD in management from the University of St. Gallen. His research focuses on leadership, emotions in organizations, and the future of work.