

Gender and Leadership: A Second-Order Meta-Analytic Review

By

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A dissertation submitted to the faculty of  
The University of North Carolina at Charlotte  
in partial fulfillment of the requirements  
for the degree of Doctor of Business Administration

Charlotte

2023

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**ABSTRACT**

KRISTEN LEE SANTOS. Gender and Leadership. A Second-Order Meta-Analytic Review.  
(Under the direction of Dr. George Banks)

Given the importance of understanding how gender bias impacts the advancement of women into upper leadership, this second-order meta-analysis attempts to explore and summarize previous developments in the gender and leadership literature in order to present the current state of the literature and identify a roadmap for future research.

This dissertation delivers three primary theoretical contributions. First, I conducted a systematic review of the leadership and gender literature to create a primer, with relevant definitions and theoretical frameworks, for gender and leadership theory. This review highlighted that little theoretical integration exists to synthesize the literature on gender and leadership.

Second, I present a second-order meta-analysis and subsequent relative weights analysis to demonstrate the relationship between personality, gender and follower evaluation of leadership constructs such as leader emergence and other leader behaviors (ex: transformational leadership, ethical leadership, etc.). The final meta-analytic correlation matrix included 89 meta-analytic estimates (total  $k=1,404$ ; total  $n=366,329$ ). Results indicate that variation in the evaluation of leaders can be explained by gender, however, the subsequent relative weights analysis indicates that for no construct is gender the dominant predictor.

Finally, this dissertation presents a research agenda based on the current findings that will advance the field, including research questions ranging from resolving methodological issues

related to the measurement of evaluations of behaviors rather than actual behaviors, to further understanding further moderators of the relationship between gender and leader evaluations.

**DEDICATION**

To my dad, who never stopped asking when I was going go back to school to get my doctorate.

**ACKNOWLEDGEMENTS**

I would like to thank my committee members Dr. Reginald Silver, Dr. Jill Yavorsky, and Dr. Natasha Randle for their guidance throughout this process. I would also like to thank the chair of my committee, Dr. George Banks, for his encouragement, counsel and enthusiasm throughout my dissertation process.

I would like to thank my family for all of the patience and grace while going through the doctoral process and my friends, who never doubted from day one that I would make it through this journey.

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## CHAPTER ONE: INTRODUCTION

There has been “explosive” growth in the leadership field in the last decade, driven by both industry, scholarly and societal interest (Hunt, 2005; Hunter, Bedell-Avers, & Mumford, 2007). United States companies alone spend an estimated \$14 billion annually on leadership development (Gurdijian, 2014), but just fifteen percent of leaders who receive training are able to establish permanent behavior change (Todd, 2018). The costs of this failure to implement can be significant, with the effects of poor leadership being associated with decreased performance, productivity, and output (Kılıç & Günsel, 2019). Failure to develop effective leadership within organizations can be caused by not fully leveraging women leaders. Leadership inequalities for women persist in spite of increased workforce participation in recent decades (Bilimoria & Liang, 2013). Women comprise 51.8% of all workers employed in management and professional occupations, yet only 27.6% of chief executives ("U.S. Bureau of Labor Statistics," 2021) and in a study of 22,000 publicly traded organizations, only 40% have even one female board member ("Peterson Institute for International Economics," 2016).

Poor representation of women in leadership creates a disadvantage for women, companies, and society. Women are disadvantaged because educational investments result in lower return. Women were conferred 60.9% graduate degrees in the 2018-2019 school year ("National Center for Education Statistics," 2020), however, even when women show signs of early academic achievement, such as a high GPA, men demonstrating less potential will still supervise more employees at work (Qian & Yavorsky, 2021). When women are appointed to a leadership role, they are more likely to be in precarious leadership positions, such as leading failing companies or in low-impact, token positions, referred to as the “glass cliff” (For counter

evidence, see (Bechtoldt, Bannier, & Rock, 2019)) (Haslam & Ryan, 2008; Ryan & Haslam, 2005; Ryan et al., 2016).

Poor representation of women also creates a disadvantage for companies, with research suggesting that women board members contribute to higher financial performance (Hoobler, Masterson, Nkomo, & Michel, 2018), increased corporate social responsibility (Bernardi & Threadgill, 2011; Setó-Pamies, 2015), and higher employee satisfaction (Bass, Avolio, & Atwater, 1996; B. M. Bass, B. J. Avolio, & L. Atwater, 1996; Vinkenburg, Van Engen, Eagly, & Johannesen-Schmidt, 2011). Further, organizations do not benefit from the unique talents and perspectives provided by women and may get a poor return on the investments they have made in training (Appelbaum, Audet, & Miller, 2003). Finally, society benefits from increased leadership equality through higher workforce participation and more equitable outcomes in societal decision making, such as new legislation (Herrera, Duncan, Green, & Skaggs, 2012; Qian & Fuller, 2020).

While research related to gender and leadership is growing in importance, prior research is not without flaws. First, there is a lack of theoretical integration related to the role of gender in leadership. Many authors cite theories such as role congruity theory (Alice H Eagly & Karau, 2002), social role theory (Alice H Eagly & Wood, 2011), status characteristics theory (Ridgeway, 1991), the backlash effect (Rudman & Phelan, 2008; Williams & Tiedens, 2016), and signaling theory (Connelly, Certo, Ireland, & Reutzel, 2011) as possible drivers of discrimination against women, but few present a holistic view of the context in which these can be expected to impact women's leadership emergence, behavior and evaluation. Gender theory itself has also separated itself into two major camps – first, that any differences between gender behaviors and outcomes are context dependent and minimal; second, that women are unique and

differentially advantaged in certain ways (Bird & Brush, 2002; Cellar, Sidle, Goudy, & O'brien, 2001). The second camp has been criticized as creating an entry-point for inequality between the genders, as these differences have unequal value in society, as in the example of comparing agentic to communal behavior in leadership (Martin, 2004; Risman, 2018). This paper will ultimately draw upon signaling theory and status characteristics theory as parsimonious, foundational theoretical frameworks to integrate these gender theories and leadership research.

Second, in much of the extant leadership research, there is conflation of actual leadership behaviors and their evaluation. For instance, Banks, Woznyj, and Mansfield (in press) demonstrated that only 3% of the variables in leadership and organizational behavior research capture actual behavior (Banks, Woznyj, & Mansfield, 2021)(in press), which limits our ability to understand actual behavioral differences between men and women in leadership. For instance, men and women may both enact righteous anger over an injustice or dominate a conversation in terms of speaking time, which has been linked to leader emergence, but may be evaluated differently for those same behaviors (MacLaren et al., 2020; McClean, Martin, Emich, & Woodruff, 2018; Rudman & Glick, 2001). Accurate measurement of leader behaviors is crucial to determining how to train effective leader behaviors that work well regardless of one's gender (Derue, Nahrgang, Wellman, & Humphrey, 2011).

Finally, the current literature does not offer a comprehensive review of leader behaviors and their outcomes through the lens of gender. Through this study, I offer a comparison of common leadership style frameworks and relevant supporting gender theories, thus offering the most comprehensive overview of gender and leader behaviors to date. Through the use of a second order meta-analysis, effect sizes will be calculated based on the standardized mean differences between men and women as they relate to leader behavior. There is no existing

primer on gender and leadership in which all of the major leadership styles are included in order to examine the nomological network of gender and evaluations of leaders.

The purpose of this dissertation is to build a framework of leadership and gender theories through the lens of signaling theory to create a comprehensive perspective of the aspects of leadership where gender does and does not lead to differences in outcomes. A second order meta-analysis will be completed to consolidate and explain existing research results – moving towards an integrated framework of gender and leadership. Understanding the current research on leadership and gender will allow organizations to further assess both the rationale and pathway to improve female representation in leadership positions.

## CHAPTER TWO: LITERATURE REVIEW

In spite of more than 50 years of academic perspective regarding the complexity of leadership, most studies address a single leadership style in isolation, such as charismatic leadership, or a single leadership process, such as leadership emergence, rather than deconstructing how an individual becomes a leader, enacts leader behaviors, and is evaluated as an effective or ineffective leader. The inclusion of a moderator such as gender, where the relationship is unclear in much extant literature, only serves to create additional confusion in the literature.

The remainder of this dissertation is as follows: I begin by reviewing the gender and leadership literature including individual differences that lead to different leadership outcomes; a review of influential gender theories; leadership styles including transactional, transformational, laissez-faire, authentic, charismatic, ethical and servant leadership; and ultimately leader measures including leader emergence and follower evaluations.

### **Individual Differences and Leadership**

Historically, leadership has been viewed through the lens of the “great man” theory, whereby leaders are presumably born, not made (Organ, 1996). Subsequent theory indicated that leadership is an iterative process (Riggio, 2018), and that leaders often emerge by fitting a prototype of leadership adopted by their followers (Brown, 2018). Today’s understanding of the pathway to leadership is more complex, based upon the understanding of leadership as a contextual, iterative process, but also partially attributed to individual differences such as cognitive ability, personality traits and demographic features such as age, race or gender (Ensari, Riggio, Christian, & Carslaw, 2011).

Early cognitive ability has been demonstrated to predict a 6.2% increase in leader role occupancy later in life, suggesting that leadership potential is evident at an early stage of development (Daly, Egan, & O'Reilly, 2015). Leadership performance is dependent upon the leader's cognitive ability to employ the following leadership skills: problem definition, cause/goal analysis, constraint analysis, planning, forecasting, creative thinking, idea evaluation, wisdom, and sensemaking/visioning (Mumford, Todd, Higgs, & McIntosh, 2017). While cultural stereotypes persist that men outperform women on tests of mathematics and spatial skills, and women excel at verbal skills, meta-analysis indicates that men and women are similar on most cognitive variables (Hyde, 2016).

The impacts of personality have been controversial in the leadership literature. Early studies that indicated that leadership was solely personality or trait driven had fallen out of favor, but recent research has brought individual personality differences back to the forefront (Zaccaro, Gulick, & Khare, 2008). Extraversion, agreeableness, conscientiousness, and openness to experience have been positively linked to an authentic leadership style (Shahzad, Raja, & Hashmi, 2020; Spark & O'Connor, 2021). However, in a recent meta-analysis, researchers studied 26 cultures and demonstrated that gender differences in personality are relatively small when compared to individual variation within the genders, suggesting that gender may not be an individuating factor in determining leadership potential (Costa, Terracciano, & McCrae, 2001).

Demographic factors such as age, race and gender are frequently used in leadership research as control variables, however, researchers suggest that this is a misused strategy when it is not grounded in theory and that often results in small effect sizes (Bernerth, Cole, Taylor, & Walker, 2018). Nevertheless, understanding differences in leadership behaviors related to age,



race and gender remains a popular topic of study as each contribute to our understanding of how individual differences impact leadership style and behavior.

While research on age and leadership is limited, generational differences in leadership styles and outcomes have been demonstrated. Supervisors of varying ages have been shown to have differing approaches to leadership, with younger workers potentially engaging in more relationship-oriented activities (Gilbert, Collins, & Brenner, 1990) than older supervisors and that charismatic, change-oriented, and risk-taking styles seem to decline with age (Rosing & Jungmann, 2015).

While there have been calls for increased research and focus on race and leadership, the topic remains understudied. Research has called for increased understanding of how race impacts the ascent to leadership positions and how it impacts evaluation and performance after placement (Begeny, Wong, Kirby, & Rink, 2021). However studies frequently fail to address intersectionality, leading to unclear results (Sanchez-Hucles & Davis, 2010). Studies of leader prototyping indicate that similar to the gender theory of “Think Manager, Think Male” leader prototypes also fall into the standard of “Think Leader, Think White” increasing the call for more research to understand workplace stereotypes and the path to leader emergence (Gündemir, Homan, De Dreu, & Van Vugt, 2014; Rosette, Leonardelli, & Phillips, 2008).

Gender is the most widely studied demographic factor that affects the leadership process, with extensive theoretical grounding across the social sciences, management, and psychology (Hoyt & Simon, 2017). Gender scholars have introduced a significant body of literature with the intent of explaining why women in the workplace have different leadership outcomes, a phenomenon commonly referred to as a “broken rung” on the career ladder. For example, for every 100 men promoted to be a first-time manager, only 86 women make that first step

(McKinsey, 2021). Studies addressing the “broken rung” can broadly be placed into three categories of factors that precede entry into a leadership role: (1) *permission and support factors*, such as identification with leadership, occupational segregation, and/or workplace bias; (2) *supply-side factors*, such as education and leadership skills; and *desire factors*, such as motivation to lead (Elprana, Felfe, Stiehl, & Gatzka, 2015). The remainder of this paper will focus on permission and support factors and desire factors, which have been determined to be the biggest single contributor to on-going leadership bias (Eagly, Johannesen-Schmidt, & Engen, 2003).

### **Gender Theory**

A variety of theories have been introduced to explain why women have different leadership outcomes, ranging from the theory of gendered organizations (Acker, 1990) to role congruity theory (Ridgeway, 2006) and theories that demonstrate backlash to women who do not conform to traditional gender roles (Rudman & Glick, 2001; Rudman & Phelan, 2008). A summary of prominent leadership constructs and their relevant gender theories can be found in Table One.

While organizational efforts to reduce bias and actively promote women into leadership positions have been ongoing, less overt forms of bias, called second-generation bias, may be preventing women from advancement (Ely, Ibarra, & Kolb, 2011). These are defined as invisible barriers supported by cultural beliefs about gender and the female gender role, that explain why gender inequalities persist in spite of laws mandating equality and the increased workforce participation of women (Acker, 2012; Calás & Smircich, 2009; Ely & Meyerson, 2000). Even

**Table One: Overview of Leadership and Gender**

| <b>Theoretical Definition</b>               |                                                                                                                                                                                                           | <b>Role of Gender in Theory</b>                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antecedents of Leadership Attainment</b> |                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                         |
| Leader Salience                             | The process through which individuals internalize and personalize meanings behind the leadership role (Ramarajan, 2014)                                                                                   | <p>Women are disadvantaged on three pathways to leader salience:</p> <ul style="list-style-type: none"> <li>• Role models identified with the leader role</li> <li>• Past leadership experience/high leader self-efficacy</li> <li>• Leadership role fitting with self-constructions of leadership</li> </ul>                           |
| Motivation to Lead (MTL)                    | Characterized by a person's desire to be in charge and enjoy leadership, as well as a sense of duty to lead or to overlook the personal risk of engaging in leadership (Chan and Drascow, 2001)           | <ul style="list-style-type: none"> <li>• Women have been demonstrated to have lower MTL</li> <li>• Gendered differences in job attribute preferences and work values</li> </ul>                                                                                                                                                         |
| Leader Emergence                            | Identifies the factors associated with someone being perceived as leader-like (Hogan, Murphy and Hogan, 1994)                                                                                             | <p>Men emerge as leaders more frequently than even dominant women, potentially driven by to processes:</p> <ul style="list-style-type: none"> <li>• Women are reluctant to initiate leader behaviors due to lack of fit to gender role</li> <li>• Group members do not accept leadership behaviors when initiated by a women</li> </ul> |
| <b>Leader Styles/Behaviors</b>              |                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                         |
| Transformational Leadership                 | Characterized by how a leader meets the needs of their followers; has four dimensions idealized influence, inspirational motivation, intellectual stimulation, and individual consideration (Stock, 2020) | <ul style="list-style-type: none"> <li>• Transformation leadership may be more consistent with the female gender role</li> <li>• "Think transformational, think female" leadership paradigm</li> <li>• While associated with woman leaders, workplace outcomes may still be better when these behaviors are enacted by men</li> </ul>   |
| Transactional Leadership                    | Characterized by a give-and-take relationship that appeals to a subordinate's self-interest (Kark and Eagly, 2010)                                                                                        | <ul style="list-style-type: none"> <li>• Men are assumed to display more transactional behaviors; however, women are more</li> </ul>                                                                                                                                                                                                    |

|                                |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                |                                                                                                                                                                                                                             | <p>likely to employ contingent reward</p> <ul style="list-style-type: none"> <li>• Women may be pressured to adjust their style to a more socially acceptable style, such as transformational leadership</li> </ul>                                                                                                                                                                                          |
| Laissez-Faire Leadership (LFL) | Defined as a general failure to take responsibility for managing, marked by a general failure to make decisions or use authority, frequent absence and lack of involvement during critical juncture (Bass and Riggio, 2006) | <p>There are gender differences in how LFL is perceived:</p> <ul style="list-style-type: none"> <li>• Men are more likely to retain leadership roles when using this style</li> <li>• Female subordinates are more likely to rate a leader as lower in this scale</li> </ul>                                                                                                                                 |
| Charismatic Leadership         | Defined as a relational process between the leader and their subordinates, characterized by personalization, intimacy and trust                                                                                             | <ul style="list-style-type: none"> <li>• Two studies indicate that there are no gendered differences in the ability to signal charismatic leadership in a virtual environment</li> <li>• Some elements, such as self-promotion, may not be compatible with female gender norms</li> <li>• Some feminist authors believe charisma is a gendered concept due to focus on individuality and autonomy</li> </ul> |
| Servant Leadership             | Emphasizes wisdom, emotional healing, and altruistic values that put other's interests before one's own, stewardship of the leader's legacy and purposeful contributions to society (Hock, Bommer, Dulebohn, and Wu, 2018)  | <ul style="list-style-type: none"> <li>• Characterized as a feminine leadership behavior due to focus on nurturing followers</li> <li>• Expectations for servant leadership are higher for women leaders</li> <li>• Feminist scholars believe that servant leadership could provide a path to fill both a leader role and female gender role authentically</li> </ul>                                        |
| Ethical Leadership             | Signaling behavior by the leader (individual) targeted at stakeholders comprising the enactment of prosocial values combined with expression of moral emotions (banks)                                                      | No demonstrated difference in expectations for ethical behaviors, however, women may be more principled, more ethical, more likely to exercise self-regulation, and more likely to question unethical practices.                                                                                                                                                                                             |

|                             |                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Authentic Leadership</b> | “a process that draws from both positive psychological capacities and a highly developed organizational context, which results in both greater self-awareness and self-regulated positive behaviors on the part of leaders and associates, fostering positive self-development.”(Luthans, Avolio) | <ul style="list-style-type: none"> <li>• Women were demonstrated as being perceived as having more authentic leader behaviors</li> <li>• May be more challenging for women because they experience a double bind of expectations for gender role and leader role</li> </ul>                                                |
| <b>Leader Evaluation</b>    | Outcome variable that has been demonstrated to be unstable and conflate actual leader behaviors with perceptions of those behaviors (Banks, Woznyj, et al 2021)                                                                                                                                   | Behaviors may be evaluated differently when enacted by a man vs. a woman. Variation in leader evaluations could be due to three factors: <ul style="list-style-type: none"> <li>• Activation of gender stereotypes</li> <li>• Subordinate gender</li> <li>• Gendered nature of the task or role being evaluated</li> </ul> |

small amounts of bias can have large impacts in the workplace, with computer simulations indicating that even with bias estimates of 1-5% in workplace performance evaluations, only 29% of top leadership positions are ultimately filled by women (Martell, Lane, & Emrich, 1996). The following section provides a review of the influential gender theories that inform the current understanding of gender, leadership and how second-generation bias may be contributing to the relatively low ascent of women into leadership roles.

### Signaling Theory

Signaling theory is used to describe behaviors between two parties when each of the parties have different information, described as information asymmetry. The sender of the information thus has to decide how to relay a message and the receiver must then decide how to interpret that signal (Connelly et al., 2011). There are two different relevant attributes in

signaling theory: 1. Indices, which are inalterable pieces of data like gender, race or age and 2. Signals, which are alterable (Karasek III & Bryant, 2012; Spence, 1978). There are two type of information where asymmetry is important, when one party does not know fully about the characteristics of another party and when one party is concerned about another party's behavior or behavioral intentions, which is common in leadership dyads, hiring and promotion decisions, and leader evaluations (Stiglitz, 2000). Signaling theory operates on a general timeline such that 1. Signaler has an underlying quality 2. A signal is sent to the receiver 3. Receiver observes and interprets the signal and then 4. Feedback is sent to the signaler (Connelly et al., 2011). As summarized by Stiglitz, "Signaling theory provides a unique, practical and empirically testable perspective on problems of social selection under conditions of imperfect information" (Stiglitz, 2002).

Early research in signaling theory focused on the one-to-one relationship between sender and receiver, but it has subsequently evolved to include a social-constructivist perspective whereby the meanings communicated through signals are not only a function of the individual interpretation, but also societal beliefs about the signal (Connelly et al., 2011). Signals can be interpreted through the lens of gender under three influences: 1. Individuals and their gender identity; 2. The individual with whom one interacts and 3. The context or setting in which the interaction takes place (Deaux & Major, 1990).

Signaling theory has relevance to gender theory because women leaders signaling the female gender role then experience both the descriptions and prescriptions inherent in that gender role (Heilman, 2001; Spence, 1978). Signaling theory could be extended to leadership as a way to explain how specific behaviors contribute to the subsequent evaluation or perceptions of a leader, and other leadership outcomes such as leader emergence, performance, or well-being

(Stock, 2020). Leader signaling behavior may be evaluated differently dependent upon the gender mix of leader-subordinate dyads.

### **Theory of Gendered Organizations**

Social-system-centered gender theories suggest that organizations themselves are inherently gendered, based on an “ideal worker” norm that is unencumbered and always available for work without the constraints of home and family (Acker, 1990). To say that an organization is gendered means that systems that advantage men are built into job requirements, salary determination, hierarchies, and expectations for appropriate behavior, creating a system of disadvantage for women (Acker, 2012).

Three ways that organizations are gendered are through the norms established for how a “good” worker is expected to behave, the value that is placed on certain gendered tasks, and through the social construction of work. First, ideal worker norms include expectations for long hours, visible busy-ness, ability to travel and responsiveness to “stay late” for unexpected work, which is inconsistent with a woman’s gender role, which is expected to have greater domestic responsibility outside of work and primary caregiving responsibility for children or elders within the home (Kelly, Ammons, Chermack, & Moen, 2010). Second, within the workplace, higher value, and subsequently pay, is placed on traditionally masculine tasks involving physical labor than traditionally feminine tasks, such as caregiving (Slaughter, 2015) and norms for appropriate behaviors for managers align with traditionally masculine behaviors (Heilman, 2001). Finally, the social construction of work versus home also leads to the gendering of the workplace, with work within organizations being the domain of a “breadwinning” man and work within the home being the domain of the “caregiving” woman (Becker, 1985).

Describing organizations and social constructs as gendered has grown in popularity, with an informal search of the literature identifying 31,500 articles since 2021 describing something as “gendered,” however, the theory is not without critics. First, granting gender ontological status makes it virtually untestable, and provides limited ability to measure if an organization is more or less gendered than another, suggesting that it is better defined as a framework for understanding inequality (Britton, 2000; Britton & Logan, 2008). Second, defining organizations as gendered makes it more difficult to imagine what a less bureaucratic, “ungendered” organization might look like, with many scholars indicating that the central challenge for organizations is to create a culture where gendered behaviors can be enacted without reproducing inequality (Gherardi, 1995). Third, most early theories of gendered organizations did not address gender as it intersects with race and class inequality, however, recent literature has begun the conversation regarding what Acker defined as ‘inequality regimes’ (Acker, 2012; Britton & Logan, 2008).

An important question is whether organizations have become less “gendered” over time. While traditional bureaucracy and hierarchies have shifted in favor of teamwork, career networking and career maps instead of ladders, women are still disadvantaged due to supervisor discretion in advancement opportunities, the importance of self-promotion in teamwork, and gender disadvantages caused in networking by not being part of the “boys club” (Williams, Muller, & Kilanski, 2012).

### **Status Characteristics Theory/Expectation States Theory**

Status characteristics theory posits that certain characteristics, or signals, such as age, gender, class or beauty hold differing levels of value for society and the evaluation of these signals are used to ascribe differing levels of status to an individual based on their congruence



with these attributes (Berger, Cohen, & Zelditch Jr, 1972). Gender provides an implicit background identity in the workplace and differentiates men from women in “socially significant ways” that are used to justify inequality and grant more respect, honor, and importance to men (Carli & Eagly, 1999; Ridgeway, 2001a; Ridgeway & Smith-Lovin, 1999). Status characteristics theory emphasizes the social structural factors that create expectations for appropriate male and female behavior and explain differences that result in variation in the social positions of men and women (Carli & Eagly, 1999). In a complementary theory, expectations states theory further explains that status beliefs will shape the development of social hierarchies among individuals, affecting each individual’s ability to attain influence and leadership (Ridgeway & Walker, 1995). This creates an important foundation for understanding decision processes related to leadership emergence and perceived competence.

Status beliefs are unique in several ways. First, status beliefs tend to be shared by both the dominant and subordinate groups. For example, when considering gender stereotypes, both men and women tend to believe that men are more likely to be leaders (C. L. Ridgeway, Boyle, Kuipers, & Robinson, 1998). Second, there exist both descriptive and prescriptive stereotypes, based on the status characteristics, which are conceptualizations of both how a group does and should behave (Alice H Eagly & Karau, 2002; Heilman, 2001), more fully described through role congruity theory. Third, inequalities linked to gender status beliefs may differ across contexts, with differentiating factors including gender make-up of the group and norms regarding the gender appropriateness of a task, such as the stereotype that women should plan office social events (Wentworth & Anderson, 1984).

Both status characteristics theory and expectation states theory contribute to our understanding of leadership because they provide a framework to understand the mechanisms

through which men are accorded a higher status, and thus a greater likelihood to emerge as a leader, be perceived as having higher competence, and have greater congruity with the leader role (Biernat & Kobrynowicz, 1997).

### **Social Role and Role Congruity Theory**

Social role and role congruity theories were developed to answer the question of how inequality in leadership persists, in spite of increased workforce participation of women, legal repercussions for discrimination, and a popular belief that women make better leaders (Ridgeway, 2011). Social construction theory explains that because men and women interact regularly, consensual status beliefs are continually created and reinforced (Ridgeway, 1991). Social role theory provides a comprehensive framework for understanding how social labor division leads to gender role beliefs in terms of shared assumptions about gender-specific attributes (Alice H Eagly & Wood, 2011). This theory includes two basic constructs related to gender inequality, gender roles and gender stereotypes. First, gender roles are defined as sets of norms prescribing the behaviors and activities appropriate for each sex (Alice H Eagly, 1987). Second, gender stereotypes are shared sets of beliefs about the psychological traits characteristic of men and women (Williams & Best, 1990).

Role-based theories of gender inequality traditionally assume two basic gender roles, men and women, with recent theory adopting a third gender role, androgynous (Garcia-Retamero & López-Zafra, 2006; Heilman, 2001; Koburtay, Syed, & Haloub, 2019). Male gendered behaviors include achievement-oriented behaviors, labeled in much of the extant literature as “agentic,” whereas feminine gendered behaviors, described as communal, are frequently social- and service-oriented traits (Heilman, 2001). Agentic traits include being competitive, self-confident, objective, aggressive, ambitious and able to lead (Heilman, Block, Martell, & Simon, 1989).

Communal traits are primarily concerned with the well-being of others and are described by traits such as affectionate, helpful, kind, sympathetic, nurturing and gentle (Alice H Eagly & Karau, 2002). An androgynous gender role is defined as showing a balanced mix of both traditionally masculine and feminine characteristics (Kolb, 1997, 1999). Each of these gender stereotypes are both descriptive and prescriptive, they explain both typical masculine and feminine behavior, but also indicate norms that are suitable for each (Alice H Eagly, 1987).

The social and domestic roles of men and women reinforce gender roles within the workplace. Men are traditionally perceived as being the “breadwinner” and because of their lesser domestic responsibility are able to work more hours, travel to meet the demands of the job, and limit their time out of the office due to childcare issues (Wynn, 2017), while women continue to carry the “triple burden” of childcare, unpaid domestic work and the care of older and disabled family members (Hearn & Collinson, 2017). When these social roles are translated into the workplace, they have important implications for the roles that men and women are permitted to have, such that even when women are depicted as a leader or manager, they are characterized as being less achievement-oriented than men, fitting with a more communal social role (Heilman, Block, & Martell, 1995). Further, the importance of masculine characteristics may be the most extreme in the upper echelons, creating an additional barrier to achievement of the most elevated roles for women (Alice H Eagly & Karau, 2002).

Leadership itself may be gendered, as explained by leader categorization theory, which claims that gender bias can be understood by examining societal leader prototypes (Scott & Brown, 2006). A “good manager” is typically described as having masculine characteristics (Heilman et al., 1989; Powell & Butterfield, 1989), management sub-roles, such as discipline, evaluation, and monitoring activities, are culturally masculine (Atwater, Brett, Waldman,

DiMare, & Hayden, 2004), and that these characteristics are essential to success in upper management (Martell, Parker, Emrich, & Crawford, 1998). A 2011 meta-analysis studied three paradigms of cultural masculinity in research, including (1) the *Think Manager, Think Male* paradigm (Schein & Davidson, 1993), which includes studies that measure the relationship between male and female stereotypes with leader stereotypes; (2) the *agency-communion* paradigm (Powell, Butterfield, & Jiang, 2021), which includes studies that measure the relationships of leader categories (ex: good manager) with masculine and feminine gender scales; and (3) the *masculinity-femininity* paradigm, which includes studies that test the masculine and feminine content of occupational stereotypes. The results of this meta-analysis indicated that consistent with the *think-manager, think male* paradigm, men were more likely to be associated with leadership roles; consistent with the *agency-communion* paradigm, participants rated leader groups as higher in agentic qualities; and consistent with the *masculinity-femininity* paradigm, occupations entailing leadership were classified as masculine (White & White, 2006).

The role congruity theory of prejudice towards women leaders proposes that incongruity between the female gender roles and leadership roles can lead to prejudice through perceiving women as less appropriate occupants of leadership roles and evaluating equivalent behaviors of men and women differently when enacted by a woman (Alice H Eagly & Karau, 2002). One important aspect of role congruity theory is that it is not only reinforced by men, but also women. An individual's own implicit leadership theories may affect their ability see themselves and others as a leaders (Elprana et al., 2015; Felfe & Schyns, 2014). The creation of mental images of leaders as men have been identified as early as childhood (Schyns, Tymon, Kiefer, & Kerschreiter, 2013) and reinforcement mechanisms have been demonstrated to include gendered titles, such as chairman (Archer & Kam, 2022). Further research indicates that there are differing

perspectives on the gender roles dependent upon generational cohorts (Murray & Chua, 2014) and that due to different social identities, women and men may differ in their expectations of their own behaviors in organizational settings (Ely, 1995).

Recent literature suggests that in a more contemporary organization, feminine traits may be more highly valued, creating a female advantage (Rosette & Tost, 2010). This is attributed to a higher likelihood that women will enact more transformational leadership behaviors (Stempel, Rigotti, & Mohr, 2015); feminized approaches to management (Alice H Eagly & Carli, 2003a, 2003b); and the stereotype content model, which indicates that there are circumstances where someone may be perceived as both communal and agentic (Cuddy, Fiske, & Glick, 2008).

### **Shifting Criterion**

The shifting criterion theory, which builds on status characteristics theory, suggests that attributes of evaluated subjects are valued according to the attributes of the higher status actor. For example, because men have a higher status, if a man in a comparison group has a higher level of education and a woman has greater work experience, the attribute of education will be given the higher weight in evaluation (Biernat & Thompson, 2002). Shifting criterion theory indicates that evaluators will shift their definitions of merit to advantage certain groups (Uhlmann & Cohen, 2005). The nature of the task can influence the degree of shift, such that men are perceived as more competent at “masculine” tasks and women are more competent at “feminine tasks” (Biernat, Manis, & Nelson, 1991). In another study, participants were more likely to rate a candidate for a job more favorably when their gender “matched” the job for which they applied (Biernat & Kobrynowicz, 1997). This research extends past the gender typing of occupational role. In a recent study, when a woman exhibited agentic behaviors, the criterion for

evaluation shifted to communal characteristics such as social skills as a pathway to justify hiring discrimination (Phelan, Moss-Racusin, & Rudman, 2008).

The shifting standards model has important implications for leadership research, including leadership style and performance, because when subjective evaluations are being used, stereotype effects that may impact promotion and opportunities in practice may not be demonstrated through the research (Biernat & Fuegen, 2001). This theory has important practical impacts as well, with further research demonstrating that because of shifting standards, women are held to higher standards of competence for traditionally male positions, such as political office (Bauer, 2019). Women also had a higher standard to meet to prove ability, suggesting that women have to “work twice as hard to be perceived as half as good” (Biernat & Fuegen, 2001; MacDonald, 1992). Shifting criterion is an example of a hidden bias that benefits gender typical applicants, which is particularly relevant when considering the typical gendered assumptions regarding the leadership role.

### **Backlash Effects and the Double Bind**

Women also experience what has been described as a “double bind” – whereby acting feminine is associated with reduced competence and women who exhibit more masculine behaviors are perceived as violating their gender roles (Biernat & Kobrynowicz, 1997; Jamieson, 1995). Interpersonal theory indicates that people are initially evaluated on two dimensions, competence and warmth (Fiske, Cuddy, & Glick, 2007). While dominance behaviors are, in general, neither desirable nor undesirable, women are evaluated more negatively when they enact them, termed “backlash” (Rudman & Glick, 1999). Because gender roles are in essence a social prescription, when they are violated there is a social cost, potentially because violators are perceived as threatening the existing social order (Rudman, Moss-Racusin, Phelan, & Nauts,

2012). Women are faced with a trade-off between being perceived as competent at work versus likeable (Cuddy, Fiske, & Glick, 2004; Ely et al., 2011) and there appears to be a “narrow band of acceptable behavior” for women leaders that requires an appropriate balance of masculine and feminine behaviors (Morrison, White, White, & Van Velsor, 1987).

Violating gender prescription stereotypes can have further negative impacts. Women who do not act “womanly” and men who do not act “manly” are presumed to be less psychologically healthy and are evaluated poorly (Costrich, Feinstein, Kidder, Marecek, & Pascale, 1975). Successful women managers are also described as “interpersonally hostile” (i.e. devious, vulgar, quarrelsome, selfish, bitter, deceitful), regardless of ratings of their competence (Heilman et al., 1995). While women are increasingly viewed and described as more agentic (Diekmann & Eagly, 2000), even descriptions of agency are split on dimensions of competence and competition, with women self-rating higher in the last 20 years on traits associated with competence, such as self-reliant, individualistic, and ambitious, but not competition, such as decisiveness, aggressiveness, and forcefulness (Spence & Buckner, 2000).

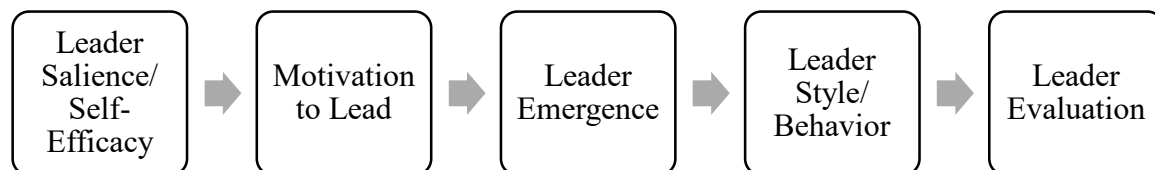
Further, behaving in a more masculine and self-promoting manner does not appear to help women reach leadership positions and may even backfire (Bowles, Babcock, & Lai, 2007; Brescoll & Uhlmann, 2008). Perceived leadership role incompatibility has been demonstrated to impact perceptions of leadership effectiveness (Alice H Eagly, Karau, & Makhijani, 1995; Paustian-Underdahl, Walker, & Woehr, 2014), leader emergence (Alice H Eagly & Karau, 1991), leader evaluations (Alice H Eagly, Makhijani, & Klonsky, 1992), and evaluations of leadership styles (Alice H Eagly & Johnson, 1990). Further, fear of backlash has been demonstrated to impact women’s ability to negotiate aggressively, resulting in less beneficial outcomes in a negotiation, such as for salary (Amanatullah & Morris, 2010). Finally, having to

maintain the appropriate balance of communality and agency, a form of impression management, has also been demonstrated to cause anxiety that can diminish task performance (Riordan, Gross, & Maloney, 1994).

### Leadership Process Model

The following section will introduce a framework for a leadership process model that addresses several antecedents to attainment of leadership status, enacted behaviors once leadership is attained, and, finally, evaluation of those behaviors. This framework will provide context for a discussion of ways that leadership attainment, behavior and evaluation differ between men and women.

**Figure 1: Leadership Process Model**



### Antecedents of Leadership Attainment

Three internal barriers to leadership emergence, a well-studied antecedent to leader attainment, include likelihood to claim leadership, general attitude toward leadership (Epitropaki, 2018; Waldman, Galvin, & Walumbwa, 2013) and likelihood to display leader characteristics, such as behavioral participation in leadership roles (Mullen, Salas, & Driskell, 1989). These barriers can be different between men and women in several instances. First, women are less likely to attempt to claim leadership or self-identify in measures of leader emergence (Epitropaki, 2018; Kent & Moss, 1994). A potential leaders' attitude towards leadership and their



leadership experience were both demonstrated to be potential barriers to leader emergence (Kolb, 1997). Second, women were less likely to display participatory behaviors, like maintaining an active voice in interactions, which prompts others to assume someone is well-suited to the leader role (Badura, Grijalva, Newman, Yan, & Jeon, 2018; MacLaren et al., 2020; McClean et al., 2018). Finally, male leaders may also hold women to a higher performance standard to maintain or advance an advantageous power dynamic which could lead to women opting-out of leadership development opportunities (Bear, Cushenbery, London, & Sherman, 2017).

One explanation for the lack of women in upper leadership positions is that perhaps women do not desire leadership positions. Media reports indicate that there is a trend of “opting out,” whereby women pursue other priorities at the expense of career growth (Kuperberg & Stone, 2008). Two explanations are that women may not identify with a leadership role or may not want to pursue a leadership position, constructs defined as identification with leadership or motivation to lead, respectively.

Leader salience is the process through which individuals internalize and personalize meanings behind a leadership role. If leadership does not fit with one’s own perceptions of themselves, they may not step up to a leadership role should one become available (Ramarajan, 2014). Self-identification has been identified as a precursor to the desire for an individual to pursue a leadership position (Hoyt, 2005). Three ways that someone might come to identify with the leadership role include: having a role model that the individual identifies with in a leadership role; past leadership experience or high leader self-efficacy; or the leadership role fitting within the individual’s own self-construction of what a leader should be. In all of these pathways to leader salience, women have a demonstrated disadvantage (Chan & Drasgow, 2001; Felfe & Schyns, 2014; Sealy & Singh, 2010).

**Research question (RQ) 1:** To what extent do men and women differ in evaluations of leader self-efficacy?

Motivation to lead (MTL) is characterized by a person's desire to be in charge and enjoy leadership, as well as a sense of duty to lead or to overlook the personal risk of engaging in leadership (Chan & Drasgow, 2001). High MTL has been shown to not only predict future career ambitions, but to also predict leadership emergence (Felfe & Schyns, 2014), however, women were demonstrated to have a lower motivation to lead than men in a research study that spanned five decades (Powell & Butterfield, 2022), supporting the “opting out” hypothesis and suggesting that women's desire to lead has not improved over time.

One explanation for women's lower MTL is that women have different job attribute preferences or work values. Men are more likely than women to prefer jobs with higher earnings, promotions, freedom, challenge, leadership and power, while women were more likely to pursue jobs high in interpersonal attributes such as helping others, better hours or a shorter commute (Konrad, Ritchie Jr, Lieb, & Corrigan, 2000). There are also gendered differences in work values – with men more highly valuing extrinsic rewards, associated with higher leadership aspirations – and women more highly valuing security and intrinsic rewards, associated with lower leadership aspirations (Lechner, Sortheix, Obschonka, & Salmela-Aro, 2018). These preferences are strongly shaped by the traditional family structure, which allows men to rely on the unpaid labor of their spouses (Becker, 1985).

**RQ2:** To what extent do men and women differ in evaluations of motivation to lead?

Leadership emergence research has been defined as identifying “the factors associated with someone being perceived as leader-like” (Hogan, Curphy, & Hogan, 1994). Studies of leadership emergence have important implications for the role of gender in leadership selection,

because in these studies the emergent leaders are neither elected nor appointed but instead receive their recognition as a result of their social interactions (Kolb, 1997). The study of leadership emergence continues to grow as organizations place greater importance on a team orientation, with team leaders being provided more opportunities to display their capabilities, and potentially move from these unofficial roles into official, hierarchical roles in leadership (Bettenhausen, 1991).

Leadership emergence research has demonstrated that men will emerge as leaders more frequently than even dominant women (Badura et al., 2018; Alice H Eagly & Karau, 1991; Kent & Moss, 1994; Ritter & Yoder, 2004), while other studies have indicated that differences in leadership emergence are either small (Alice H Eagly & Karau, 1991) or more tied to gender role than biological sex (Kolb, 1997). Theory indicates that this is driven by two processes: an internal barrier whereby women are reluctant to initiate leadership behaviors and an external barrier whereby group members do not accept leadership behaviors when initiated by a woman, due to the perceived role incongruity between their gender role and the leader role (O'Leary, 1974; Wentworth & Anderson, 1984). Through the lens of signaling theory, women choose not to signal leadership behaviors or potential, and group members may not accept these signals when they do. These processes create a feedback loop between sender and receiver that continually reinforces gendered prescriptions and descriptions (Ridgeway, 2011).

**RQ3:** To what extent do men and women differ in evaluations of leader emergence?

Leadership in groups emerges when characteristics of the potential leader align with follower/group member prototypes of group ideals, which provides the emergent leader with influence (Meuser et al., 2016). This implies that the individual's actual behaviors and the group's evaluations of those behaviors inform the decision process regarding who has the ability

to become a leader (Ridgeway, 2001b). It appears that in this process possessing masculine characteristics puts potential leaders at an advantage over those with more feminine characteristics (Fagenson, 1990).

Consistent with status characteristics theory, individuals with a higher salient status, such as gender, will receive more opportunities to make contributions to a group task, receive higher evaluation for contributions they make, and have higher influence within the group (Carli & Eagly, 1999). Further, group members with lower perceived status will also have less legitimacy within the group to act as a group leader (Ridgeway & Berger, 1986). Consistent with social role theory, men may be more likely to emerge as leaders because a more direct, autocratic style, consistent with the leader stereotype is also considered to be a masculine trait (Carli & Eagly, 1999).

Significant differences have been shown in likelihood for leadership emergence depending on the task type, with women more likely to emerge as a leader if the task is judged to be feminine or communal, such as planning a group lunch versus if the task type is judged to be masculine, such as investing an inheritance, suggesting that women have to be perceived as subject-matter experts to emerge as leaders (Alice H Eagly & Karau, 1991; Wentworth & Anderson, 1984).

Finally, women displaying more androgynous characteristics in one study were able to emerge as leaders, suggesting that feminine characteristics do not necessarily preclude a women attaining a leadership position, as long as she also displays masculine characteristics (Kent & Moss, 1994). In a recent study with same-sex dyads, only women who tempered their agency with communion were likely to emerge as leaders (Schock, Gruber, Scherndl, & Ortner, 2019).

In spite of the proliferation of literature regarding gender and leadership, many critical studies have indicated that most differences in leader behaviors are context dependent, rather than solely predicted by leader or follower gender (Alice H Eagly, 2005; Alice H Eagly & Carli, 2003a) and that the leader behaviors themselves may be influenced by how the leader chooses to enact leadership.

### **Leadership Styles Introduction**

A significant body of literature has attempted to answer the question if men and women have different leadership styles or are the perceived differences the effects of bias (Maher, 1997). Several studies have indicated that there are not as many differences in leadership styles as stereotypes suggest (Alice H Eagly & Johnson, 1990; Koenig, Eagly, Mitchell, & Ristikari, 2011), and many differences can be attributed to a failure to control for actual vs. perceived behavior (Bartol, 1978) and consensus among observers of behaviors due to shared stereotypes of the observers (Schmitt & Hill, 1977). Behaviors can be defined as “the internally coordinated responses (actions or inactions) of whole living organisms (individuals or groups) to internal and/or external stimuli, excluding responses more easily understood as developmental changes” (Levitis, Lidicker Jr, & Freund, 2009). Further, leadership research has failed to meet the conditions necessary to make causal claims (Antonakis, Bendahan, Jacquart, & Lalive, 2010).

The study of leadership styles and gender is further complicated due to the proliferation of leadership theories and methodological issues. First, a recent network analysis indicated that leadership theory integration is in its infancy, and the integration of theories related to leadership and gender has possibly not occurred at all (Meuser et al., 2016) with an additional critique that there is little to no gender specific theoretical development (Calás & Smircich, 1999). Second, many studies also conflate follower evaluation with actual leader behaviors, which can be

problematic in studies of gender and leadership where bias has been so thoroughly documented (Stock, 2020; Van Quaquebeke & Felps, 2018). Third, most research conducted attempts to capture broader concepts, such as “inspirational” rather than concrete behavioral acts, which prevents researchers from fully understanding organizational dynamics (Podsakoff, MacKenzie, & Podsakoff, 2016). Finally, because of the proliferation of theories, construct redundancy is an ongoing concern (Banks, Gooty, Ross, Williams, & Harrington, 2018).

In the next section, I will provide an overview of the most popular contemporary leadership styles, including transformational, transactional, laissez-faire, charismatic, authentic, servant and ethical leadership.

### **Transformational Leadership**

Transformational leadership has become one of the most dominant leadership paradigms in the organizational sciences and has been extensively studied over the last forty years (Dinh et al., 2014; Mhatre & Riggio, 2014). Transformational leadership is grounded in the perspective of how a leader meets the needs of their followers and has four dimensions: *idealized influence*, historically conflated with charisma, through which the leader encourages followers to identify with him or her (Bono & Judge, 2004; Stock, 2020); *inspirational motivation*, which is the degree to which a leader has an inspiring vision for followers (Banks, McCauley, Gardner, & Guler, 2016); *intellectual stimulation*, which involves encouraging risk-taking and growth; and finally, *individual consideration*, whereby a leader attempts to meet the needs of individual followers (Judge & Piccolo, 2004). This definition has been criticized because two of these four dimensions overlap with charismatic leadership and common definitions include tautologies (Stock, Banks, Voss, Tonidandel, & Woznyj, 2022).

Transformational leadership behaviors have been further redefined as “leader signaling through developmental and prosocial behaviors tailored for each unique stakeholder (e.g., person, dyad, group, organization)” (Stock et al., 2022). Avolio summed up transformational leadership by explaining that “leaders develop followers into leaders in a morally uplifting way” (Avolio, 1999). Transformational leadership styles align with contemporary organizations desire to become “less hierarchical, more flexible, team-oriented, and participative” (Fondas, 1997). Transformational leadership has been accepted as a model of contemporary good managerial practice and has a positive relationship with leader effectiveness (Judge & Piccolo, 2004), employee performance, and organizational level outcomes (Avolio, Bass, & Jung, 1999).

A significant body of research exists on gender differences in transformational leadership. According to the gender-centered perspective of leadership, men are more likely to adopt a masculine style of leadership, characterized by task-orientation and dominance and women are more likely to adopt a feminine style of leadership, characterized by caring and nurturance, described as a “feminized” style of management, which may be more consistent with a transformational leadership style (Bass & Avolio, 1992; Carless, 1998; Druskat, 1994). Leader-self ratings and superior ratings tend to rate women more highly on interpersonal aspects of transformational leadership (Carless, 1998; Rosener, 1990). In a meta-analysis, women exceeded men on three transformational scales: idealized influence, inspirational motivation and individualized consideration, with individualized consideration having the most significant difference, leading researchers to coin the phrase “think transformational leadership, think female” (Alice H Eagly & Johannesen-Schmidt, 2001; Stempel et al., 2015).

While women are more likely to exhibit and be evaluated as having transformational leadership behaviors, workplace outcomes may still be perceived as better when the same

behaviors are enacted by men (Prentice & Carranza, 2004). For example, there is a significant, positive relationship between transformational leadership and innovative work behavior, however, employees reported more innovative leadership when the behavior was enacted by a man (Reuvers, Van Engen, Vinkenburger, & Wilson-Evered, 2008). Women also have difficulty establishing the legitimacy required to demonstrate intellectual stimulation, so this behavior can inspire backlash (Haslett, Geis, & Carter, 1992). Inspirational motivation is more important for promotion of a man while individualized consideration is more important for promotion of a woman. However in studies, leadership does not seem to value individualized consideration as much as other factors (Vinkenburger et al., 2011). Finally, research indicates that follower's work satisfaction is only impacted by a transformational leadership style when the leader is a man (Wolfram & Mohr, 2010).

Recent studies attempt to understand the impacts of an androgynous leadership style, which allows for using the best, most appropriate leadership styles of both men and women, believing that "transformational leadership requires a gender balance rather than the traditional leadership stereotype of masculinity" (Hackman, Hills, Furniss, & Paterson, 1992). In a study measuring androgyny, masculinity and femininity, androgyny was more closely related to transformational leadership, however, women paid a higher penalty for not being perceived as androgynous, defined in the study as blending femininity and masculinity (Kark, Waismel-Manor, & Shamir, 2012).

**RQ4:** To what extent do men and women differ in evaluations of transformational leader behavior?



**Transactional Leadership**

Transactional leadership styles are rooted in give-and-take relationships that appeal to a subordinate's self-interest (Kark & Eagly, 2010). Transactional leadership occurs when the leader rewards or disciplines the follower depending on the follower's behavior or performance, (Avolio et al., 1999; J. Martin, 2015). Transactional leadership has two dimensions: contingent rewards, where acceptable employee behavior is rewarded; and management-by-exception, characterized as either active or passive. Active management-by-exception is demonstrated by correcting behaviors and passive management-by-exception is demonstrated through not taking action until something goes wrong (Bass, 1990). Transactional leadership and transformational leadership are often defined dichotomously, however, many scholars believe that successful transactional leadership forms the groundwork from which transformational leadership emerges (Melody De Cara, 2000). Most leaders engage in both leadership behaviors, but in differing amounts (Bass, 1985). A primary differentiation between the two styles is that in transactional leadership there is no long-term vision that forms the relationship between leader and follower (Maher, 1997).

While men are assumed to display more transactional behaviors, and self-rate as more transactional, women actually exceed men on the transactional attribute of contingent reward (Alice H Eagly & Johannesen-Schmidt, 2001; Rosener, 1990). However, women tend to employ the style more typical of their male colleagues in male-dominated hierarchies (Kark & Eagly, 2010). Women may also feel pressure to adjust their style to a more socially acceptable leadership style, such as transformational leadership (Alice H Eagly & Johannesen-Schmidt, 2001) and that by not engaging in a transactional leadership style, women may be able to avoid social role violations through not giving a "masculine impression" through hierarchical control and agentic leader behavior (Yoder, 2001).

**RQ5:** To what extent do men and women differ in evaluations of transactional leader behavior?

### **Laissez-Faire Leadership (LFL)**

Laissez-faire leadership (LFL) is defined as a general failure to take responsibility for managing (Judge & Piccolo, 2004), is the most inactive leadership style, and the most ineffective, marked by a general failure to make decisions or use authority, exhibiting frequent absence and lack of involvement during critical junctures (Bass & Riggio, 2006). LFL, by definition is characterized by a lack of “care” or “consideration,” typically communal traits (Stempel et al., 2015). Through the lens of signaling theory, LFL could be described as lacking signaling behaviors that would indicate leadership. LFL is unique among the other leadership constructs because rather than describing behaviors, it instead describes a lack of leadership actions (Norris, Ghahremani, & Lemoine, 2021). Many scholars have disregarded LFL as the “inaction of poor managers disinterested in their followers,” however, some research indicates that laissez-faire leadership may be a more complex phenomenon, with LFL behaviors potentially being confused with delegation, usually perceived to be a positive behavior. This study further demonstrates significant gender differences in how absence of leadership versus delegation is perceived depending upon subordinate gender and the perceived competence of their manager (Norris et al., 2021).

In meta-analysis, men exceeded women in scales related to LFL, suggesting that men may have greater ability to remain in leadership roles, in spite of poor performance (Alice H Eagly & Johannesen-Schmidt, 2001). Interestingly, female subordinates were more likely to rate both male and female leaders as lower on the LFL scale (Bass et al., 1996).

**RQ6:** To what extent do men and women differ in evaluations of laissez-faire leader behavior?

### **Charismatic Leadership**

While charismatic leadership has suffered from a lack of clarity in its definition, it has been defined most recently as “values-based, symbolic, and emotion-laden leader signaling” (Antonakis, Bastardo, Jacquart, & Shamir, 2016). Charismatic leadership, therefore, is a relational process between the leader and their subordinates, characterized by personalization, intimacy, and mutual trust (Takala & Aaltio, 2004). Following an extensive examination of the definitions of charismatic leadership, three components of charismatic leadership were ultimately identified: Justifying a mission by appealing to values and engaging in emotional displays; communicating in symbolic ways to create a clear and vivid message; and demonstrating conviction and passion for the mission (Antonakis et al., 2016). Meta-analysis indicates that these components of charismatic leadership do predict outcomes of interest, including task performance, citizenship behaviors, and group or organization performance, but no gender differences were demonstrated in this study (Banks et al., 2017).

Charismatic leadership tactics (CLTs) are a collection of verbal and nonverbal behaviors that can be both trained and observed, and can be considered to be signals to followers. Twelve validated behaviors include: metaphors, stories or anecdotes, moral conviction, sentiment of the collective, setting high expectations, creating confidence regarding goal achievement, contracts, lists, rhetorical questions, body gestures, facial expressions and using an animated voice tone (Antonakis, Fenley, & Liechti, 2011; Ernst et al., 2022). Two studies on virtual charismatic leadership behavior and charismatic signaling in social media settings demonstrated no gender

differences in ability to effectively use CLTs (Ernst et al., 2022; Tur, Harstad, & Antonakis, 2021).

There is a positive relationship between charisma and femininity (Hackman et al., 1992), and leaders with greater social and emotional ability are more likely to display charismatic leadership behaviors (Groves, 2005). In an early study, women were found to exhibit more charismatic leader behaviors (Groves, 2005), however the definition used for charismatic leadership is not consistent with the generally accepted definition today. Some elements of charismatic leadership may not be compatible with female gender norms, which value modesty in women over self-promotion and assertiveness, which can hinder women when executive leadership is conflated with charismatic qualities, especially at the CEO level (Martell et al., 1998).

Some feminist authors believe charisma is a gendered concept because of its historical focus on individuality and autonomy (Takala & Aaltio, 2004), but this is inconsistent with the definition used today. Further feminist critique indicates that the word charismatic may itself relate to the masculine heroic notion, making it impossible to consider the behaviors of women as demonstrating positive charisma, however, current definitions that are based on values-based signaling may not have this limitation (Calàs, 2019).

**RQ7:** To what extent do men and women differ in evaluations of charismatic leader behavior?

### **Servant Leadership**

Servant leadership emphasizes wisdom, emotional healing, and altruistic values that put other's interests before one's own, stewardship of the leader's legacy and purposeful contributions to society (Hoch, Bommer, Dulebohn, & Wu, 2018). Servant leadership was

operationalized and measured through the Servant Leadership Questionnaire, which measures servant leader behavior on five dimensions: altruistic calling (positive intent to put aside self-interest to benefit followers), emotional healing (ability to provide emotional support following failure), wisdom (operationalized as the combination of knowledge and utility), persuasive mapping (ability to map issues, conceptualize possibilities and articulate those opportunities), and organizational stewardship (focus on community outside of the organization) (Barbuto & Wheeler, 2006). In servant leadership, people take priority over issues, aligning organizational issues with human needs (Mayer, Bardes, & Piccolo, 2008; Reinke, 2004). In a meta-analysis of servant leadership outcomes, servant leadership was found to positively impact job performance and job-related employee attitudes, organizational citizenship behavior, job satisfaction, organizational commitment and trust (Kiker, Callahan, & Kiker, 2019).

Servant leadership has been characterized as a feminine leadership behavior due to its focus on nurturing followers (Barbuto & Gifford, 2010), not by performing menial tasks, but by facilitating their personal and professional growth to support organizational goals (Van Dierendonck, 2011). Specifically, the dimensions of servant leadership defined as communal, include altruistic calling, emotional healing, and organizational stewardship (Barbuto & Gifford, 2010). In a study examining communal leadership, expectations for servant leader behavior for women were greater for a female leader versus a male leader and female raters expected more servant leader behaviors than male raters (Hogue, 2016). In another study that deconstructed the Servant Leadership Questionnaire into communal and agentic properties, no differences were found between men and women in their ability to employ these attributes (Barbuto & Gifford, 2010). However, it was demonstrated in other research that women were more likely to adopt a servant leadership style (Rodriguez-Rubio & Kiser, 2013). When considering workplace

outcomes, research indicates that in teams with higher feminine role composition, servant leadership has greater effects on prosocial motivation, follower servant leadership and performance (Lemoine & Blum, 2021).

Feminist scholars believe that servant leadership may be an avenue to overturn the hierarchical power structures that subordinate female leaders, associating serving with female gender roles and leadership with male gender roles (Reynolds, 2014). Similar to the perspective of transformational leadership scholars, servant leadership has been identified as a style that could allow female leaders to inhabit both their leader and gender roles authentically (Scicluna Lehrke & Sowden, 2017). Similarly, women portraying the role of servant leader may be able to rise to positions of influence without perceived role violations or gatekeeping by male colleagues (Duff, 2013). Feminist critiques of the theory pose servant and leader as gender-laden terms that continue to restrict the study of leadership to dichotomous terms, requiring a “perceived gendered choice” (Eicher-Catt, 2005).

**RQ8:** To what extent do men and women differ in evaluations of servant leader behavior?

### **Ethical Leadership**

The demand for a theory of ethical leadership has increased in the wake of corporate scandals such as Enron, Wells Fargo and Volkswagen. Ethical leaders are seen to be honest, trustworthy, fair and principled decision-makers, and encourage ethical behaviors in their followers (Trevino, Hartman, & Brown, 2000). Ethical leadership theory has been criticized in the literature, however, because it conflates follower evaluations with actual leader behaviors and also is unclear in how ethical leadership impacts organizational outcomes, so an alternative definition has been proposed defining ethical leadership behavior as “signaling behavior by the

leader targeted at stakeholders comprising the enactment of prosocial values combined with expression of moral emotions” (Banks, Fischer, Gooty, & Stock, 2021).

Research regarding gender and ethical leadership is inconclusive, with some studies indicating that there is no difference in gendered expectations for ethical behavior (Goswami, Agrawal, & Goswami, 2020), and other indicating that women are more principled (Forte, 2004), more ethical (Ho, Li, Tam, & Zhang, 2015), more likely to exercise self-regulation (Politis, 2016), and more likely to question unethical practices (Jones & Gautschi, 1988). Ethical behavior also seems to have a greater impact on the organizational commitment of female employees, compared to their male colleagues (Karakuş, 2018) and varying gendered responses to displays of unethical behavior such that unethical male leaders are likely to stay in positions of power whereas female leaders are likely to be removed from leadership (Pandey, DeHart-Davis, Pandey, & Ahlawat, 2022).

**RQ9:** To what extent do men and women differ in evaluations of ethical leader behavior?

### **Authentic Leadership**

Authentic leadership places a high value on leaders behaving in accordance with who they are, with common definitions focusing on self-awareness (understanding one’s goals, emotions and abilities), relational transparency (showing one’s authentic self to others), balanced processing (objectively evaluated all information), and internalized moral perspective (self-regulation) (Banks et al., 2016; Walumbwa, Avolio, Gardner, Wernsing, & Peterson, 2008). Other core elements of authentic leadership include positive self-development, transparency in decision making, seeking others’ perspectives, and self-regulatory behaviors (Luthans & Avolio, 2003). Authentic leadership studies have found positive relationships between authentic leadership and outcomes such as trust in leadership (Hunt, Gardner, & Fischer, 2008), follower

job performance (Wang, Van Iddekinge, Zhang, & Bishoff, 2019), leader and follower well-being (Gardner, Avolio, Luthans, May, & Walumbwa, 2005), supervisor satisfaction (Walumbwa et al., 2008), and organizational citizenship and commitment (Cottrill, Lopez, & Hoffman, 2014; Jensen & Luthans, 2006).

In research on authentic leadership and gender, female leaders had increased authentic leader perceptions, both overall and on four dimensions of authentic leadership, including self-awareness, relational transparency, internalized moral perspective, and balanced processing (Braun, Peus, & Frey, 2018). Research on positive work climate, psychological capital and authentic leadership suggested that the ways that male versus female followers interpret authentic leadership behaviors may be different (Woolley, Caza, & Levy, 2011). Authentic leadership entails not only acting in accordance with your values, but also having the organizational legitimacy that would enable a leader to promote those skills on behalf of the organization, which has been demonstrated to be more challenging for female than male leaders (Alice H Eagly, 2005).

Feminist interpretations of authentic leadership suggest that it is not gender neutral and is especially challenging for women. Authenticity is difficult in a work environment that places women in the “double bind” of their gender role paired with the conflicting leader role, organizations themselves are gendered and reward male behavior, and finally authentic leadership is self-focused rather than others-focused, a hallmark of female communality (Hopkins & O’Neil, 2015). In a study of four autobiographies, it was also concluded that embracing the female gender role was critical for these women to be considered “authentic” (Kapasi, Sang, & Sitko, 2016). Further research suggests that authenticity itself is something a



leader performs or signals and that this authenticity is tied to representing the gender norm expected within their context (Liu, Cutcher, & Grant, 2015).

**RQ10:** To what extent do men and women differ in evaluations of authentic leader behavior?

### **Leadership Styles Summary**

A significant body of research has accumulated reviewing leadership styles, including attributes such as if there is a gendered difference in preference of style, association with that style, actual leadership style behaviors, and difference in leadership outcomes based on a leader's usage of an individual style. In spite of the research volume, it is difficult to answer questions such as do men or women have a leadership style advantage or are men or women are more effective as leaders for several reasons. First, in the case of newer leadership style theories, such as servant, authentic, and ethical leadership, lack of clarity regarding definitions of the leadership styles and their subsequent measurements has stymied efforts to create an integrated body of knowledge and accumulate data regarding gender. Second, the research indicates that the answers to these questions are heavily context dependent, depending upon factors such as the degree to which the organization is male-dominated (Alice H Eagly & Johnson, 1990), the gender make-up of the leader-subordinate dyad (Becker, Ayman, & Korabik, 2002), and the generational make-up of the organization and leader-subordinate pairs (Murray & Chua, 2014). Finally, the research suggests that in many cases leadership style is not being interpreted through the lens of actual behaviors, but rather a subordinate or superior's subjective interpretation of those behaviors, which have been demonstrated to be highly gendered based on role expectations by both gender and leader stereotypes (Koburtay et al., 2019).

**Gender, Evaluations, and Actual Leader Behavior**

The final stage of the leadership process model we will consider is follower evaluation, which has been demonstrated to be both unstable and conflate actual leader behaviors with perceptions of those behaviors, meaning that the same behaviors may be evaluated differently when enacted by a man versus a woman (Banks, Woznyj, et al., 2021; Butterfield & Bartol, 1977). Research suggests that variation in behavior ratings could be due to three primary factors: activation of gender stereotypes, subordinate gender, and the gendered nature of the task/role being evaluated.

Deaux and Major presented an early model of the impact of gender stereotypes on behavior, finding that when gender stereotypes are activated, perceivers of those behaviors also act in accordance with those stereotypes, so in the case of leader ratings, subordinates may be rating their male and female leaders according to gender stereotypes (Deaux & Major, 1987). Even when a leadership style is perceived as effective, it may not be evaluated the same. Evaluations of a leader vary more when the follower's gender is considered along with the leader's gender and leadership style (Hogue, 2016). Gender bias has been demonstrated in the evaluation of performance in task-oriented groups, with group members having the perspective that men are more competent and women must perform better to be perceived as equally competent (Foschi, 2000). Further, male leaders have been demonstrated to receive "extra credit" from their subordinates when they display behaviors like verbal consideration, whereas for women, it is expected behavior (Mohr & Wolfram, 2008).

Follower evaluation has also been demonstrated to follow the rules of the "double bind" whereby women who display stereotypically masculine qualities are less respected and admired by subordinates in reviews (Vial, Napier, & Brescoll, 2016), and held more personally accountable in the event of a failure (Lopez & Ensari, 2014). Further, women who display high

levels of physical attractiveness are evaluated as lower in trust and loyalty ratings when displaying a transformational leadership style (Braun, Peus, & Frey, 2012). Also, female leaders are penalized more in evaluations for displays of anger or sadness, than their male counterparts (Lewis, 2000).

Subordinate gender also impacts perceived relational quality with supervisors, as men and women were demonstrated to interpret and value different dimensions of the Leader-Member exchange theory, impacting how employees rated their leaders (Collins, Burrus, & Meyer, 2014). In one study, it was demonstrated that the relationship between a leader's self-report on transformational leadership and their subordinate's evaluation of their performance was less positive for female leaders with male subordinates than female leaders with female subordinates. If the leader was male, results regardless of gender of subordinate were similar (Ayman, Korabik, & Morris, 2009). Further, female subordinates are more likely to rate their leaders as more transformational and less abusive than male followers (Wang et al., 2019). In the case of negative reviews or subordinate discipline, female leaders tended to be perceived as both less fair and less effective than their male counterparts (Atwater, Carey, & Waldman, 2001). Masculine individuals expect more masculinity from their leaders (Johnson, Murphy, Zewdie, & Reichard, 2008). A recently proposed gender projection model theorizes that people are more likely to identify their own gender with a leadership prototype, but only when it benefits their ingroup, with men projecting masculine characteristics, but only when that leadership role is not at risk due to a failing company or a token role, providing partial explanation for the "glass cliff" phenomenon (Carrel, Gabarrot, Joerg, & Édith, 2022; Ryan & Haslam, 2005). In male-dominated teams, male leaders were rated to be more prototypical, however, in more gender-

balanced teams, this advantage was eliminated (Gloor, Morf, Paustian-Underdahl, & Backes-Gellner, 2020).

Finally, task and organization type has been shown to impact leader evaluations. Women tend to face a greater disadvantage when evaluated in roles perceived to be more masculine (Alice H Eagly & Carli, 2003a; Alice H Eagly et al., 1992) or more male-dominated (Alice H Eagly et al., 1995). Women are less likely to be recalled or acknowledged in leadership positions because it has been shown the counter-stereotypical information is more difficult to recall and the stereotype for leadership is male (Bordalo, Coffman, Gennaioli, & Shleifer, 2016).

While the gendered effects of follower evaluations have been demonstrated in the research for the last five decades, recent research suggests that the “good manager” stereotype has transitioned from being masculine to being more androgynous, perhaps reducing the barriers to women for positive follower evaluation (Powell et al., 2021).

**RQ11:** To what extent are gender and leadership studying actual behavior rather than evaluations of behaviors?

### **Personality and Follower Evaluation**

Personality has also been demonstrated to be a predictor of follower evaluations of leader behavior (Bono & Judge, 2004; Shahzad et al., 2020). When considering personality as a predictor of follower evaluation, there are three important considerations. First, there are differences between men and women in their scores on select aspects of the Big Five Personality traits, for example women score higher on agreeableness, extraversion, conscientiousness, and neuroticism than men. While extraversion is the strongest predictor of leader emergence out of the Big Five personality traits, emotional stability and agreeableness tend to be the least important (Carli & Eagly, 2011; Alice Hendrickson Eagly, Carli, & Carli, 2007). Second,

personality scores merely indicate that there are differences between men and women on average, not that an individual man or woman can't be stronger than that average or cannot enact those behaviors in a leadership context (Shahzad et al., 2020). Third, consistent with previously reviewed gender theories, as with many behaviors, these behaviors may be perceived by followers differently if that behavior is enacted by a man compared to a woman (Ridgeway, 2011). For example, while women tend to score higher on scores of emotional stability, this trait tends to be a stronger predictor of leader emergence in men than women (Neubert & Taggar, 2004).

**RQ12:** What is the relative importance of leader gender compared to Big Five personality traits in predicting follower evaluations of leader behavior?

### **CHAPTER THREE: RESEARCH METHODOLOGY**

#### **Systematic Search**

A second-order meta-analysis was conducted consistent with past standards (Banks et al., 2018; Oh, 2020; Woznjy et al., in press). A systematic search was performed for published and unpublished meta-analyses about leadership, which included the terms “meta-analysis,” “meta,” “leadership,” “lead” “gender,” “men and women,” “follower evaluation,” or “performance evaluation,” in either the title or the abstract. It should be noted that there is a normative and/or literal requirement in the social and natural sciences (e.g., the American Psychological Association) to include “meta-analysis” in the title and abstract of all publications that are in fact meta-analyses. ABI Inform source types included Dissertation and Theses, Scholarly Journals, Trade Journals and Working Papers. Google Scholar search was sorted by relevance with no time constraints, with the first 150 returned results examined. Following this initial search, other

meta-analyses were added to the database through forward and background references searches on the retrieved articles. A supplemental search was conducted for gender, Big Five personality traits, and the leadership styles previously mentioned. These supplemental searches were needed to fully populate the meta-analytic correlation matrix.

### **Inclusion/Exclusion Criteria**

Studies included in analysis were required to be a meta-analysis, and any primary studies were excluded from consideration. Each of the studies considered had to include quantitative data, including a correlation matrix for gender and one of the leader variables under consideration, including transformational, transactional, laissez-faire, charismatic, servant, authentic, or ethical leadership or leadership emergence, motivation to lead, identification with leadership, and follower evaluation.

### **Coding Process**

Meta-analyses which examined any of the following dimensions of the leadership process were coded: Identification with Leadership; Motivation to Lead; Leadership Emergence; Transformational Leadership; Authentic Leadership; Transactional Leadership; Laissez-Faire Leadership; Servant Leadership; Ethical Leadership; Charismatic Leadership; and Follower Evaluation.

### **Analysis**

**Comparison of bivariate correlations.** To test the research questions listed in the literature review, a meta-analytic correlation matrix was conducted, following guidance from Landis (Landis, 2013). These matrices were populated with meta-analytic estimates with large sample sizes, in order to reduce random sampling error (Borenstein, Cooper, Hedges, &

Valentine, 2009; Schmidt, 2015). The goal was to create a meta-analytic correlation matrix among the seven leadership behaviors and pre-cursors to leadership (including motivation to lead, leader salience, and identification with leadership, follower evaluation, and evaluation of followers).

When an estimate was included from multiple meta-analyses, I included the estimate with the larger sample size, to reduce random sampling error (Borenstein et al., 2009; Schmidt, 2015). Meta-analytic correlations were not combined due to potential overlapping samples across meta-analyses, consistent with prior research (Woznyj, Banks, Whelpley, Batchelor, & Bosco, 2022).

### **Relative weights analysis**

Additional analyses were conducted to determine the relative importance of gender over and above other known predictors of leader outcomes, specifically, personality. The use of relative weights has become a widely adopted and accepted technique in meta-analytic studies to identify patterns of dominance among correlated predictor variables (Banks et al., 2016; LeBreton, Hargis, Griepentrog, Oswald, & Ployhart, 2007). In this analysis, I used the epsilon weight technique, where the resulting weights were summed to  $R^2$  and then compared using ratios (Tonidandel & LeBreton, 2011).

## CHAPTER FOUR: FINDINGS

In this section, I review the findings of this analysis. First, I review the meta-analytic procedures used to build the meta-analytic correlation matrix between gender, personality and each leadership construct. Second, I provide a review of each of the research questions that were introduced in Chapter Two of this dissertation. Third, I draw a comparison between these results and the relationship between Big 5 personality traits (openness, conscientiousness, extraversion, agreeableness, and emotional stability). Finally, I conducted a relative weights analysis to provide an understanding of the relative importance of gender and personality when predicting relationships with leadership constructs.

### Meta-Analytic Procedures

To test research questions 1-10, I created a meta-analytic correlation matrix (Landis, 2013), populating the table with meta-analytic estimates from prior meta-analysis. If two meta-analyses existed for a single construct, I selected the meta-analytic estimate with the largest sample size, to avoid random sampling error. Estimates were not combined from multiple meta-analyses to avoid duplication of primary studies. The final meta-analytic correlation matrix included 89 meta-analytic estimates (total  $k=1404$ ; total  $n=366,329$ ).

After coding the meta-analyses, there were relationships for which I was unable to identify an existing meta-analysis (3% of the desired study relationships). Specifically, these relationships were between gender, servant leadership, ethical leadership and authentic leadership. To fill in this missing data, I complemented my systematic search with an exploration of primary study findings, with studies identified from an existing meta-analysis of servant leadership, ethical leadership and authentic leadership (Hoch et al., 2018). These primary studies



were evaluated to determine if their correlation tables included gender. Any study that did not include gender was excluded. Additional meta-analytic procedures were used to analyze the primary samples identified in order to allow for the correction of measurement error (Schmidt, 2015).

In order to test the potential of moderating variables, for the primary studies, I calculated 80% credibility intervals using the corrected effect size estimate. This analysis provided evidence that within these leadership constructs, moderating variables are likely to be present.

### **Test of Research Questions 1 to 3 – Precursors to leader evaluations**

I began my analysis by reviewing research results related to research questions 1-3, which were focused on the relationship between gender and pre-cursors to leader evaluations, including leader salience, motivation to lead and leader emergence. The full correlation matrix can be found in Table Two. Leader salience was not included in any existing meta-analysis, so for the purposes of this analysis, the construct leader self-efficacy was evaluated, a construct closely related to leader salience (Chan & Drasgow, 2001). No meta-analysis included a composite score for Motivation to Lead, so this construct was evaluated by looking at its components – affective identify, social normative, and non-calculative motivation to lead.

The strongest relationships in precursors to leadership were Non-Calculative Motivation to Lead ( $\rho=-0.09$ ,  $k=23$ ,  $n=6,319$ ) and leader emergence ( $\rho=0.09$ ,  $k=136$ ,  $n=19,073$ ), with women being associated with higher Non-Calculative Motivation to Lead and men being associated with higher leader emergence. Non-Calculative Motivation to Lead is a measure that indicates likelihood that someone will weigh the related pros and cons of becoming a leader, which may be more consistent with the idea that women do not self-associate with the leader role

Table Two: Meta-Analytic Correlation Matrix

|    | 1                                       | 2                                                 | 3                                                  | 4                                                  | 5                                                  | 6                                               |
|----|-----------------------------------------|---------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|-------------------------------------------------|
|    | Gender                                  | Openness                                          | Conscientiousness                                  | Extraversion                                       | Agreeableness                                      | Emotional Stability                             |
| 1  | Gender                                  | --                                                |                                                    |                                                    |                                                    |                                                 |
| 2  | Openness                                | $\rho=0.03$ ( $k=1$ ; $n=17,637$ ) <sup>a</sup>   | --                                                 |                                                    |                                                    |                                                 |
| 3  | Conscientiousness                       | $\rho=0.07$ ( $k=1$ ; $n=17,637$ ) <sup>a</sup>   | $\rho=0.06$ ( $k=338$ ; $n=356,680$ ) <sup>b</sup> |                                                    |                                                    |                                                 |
| 4  | Extraversion                            | $\rho=0.06$ ( $k=1$ ; $n=17,637$ ) <sup>a</sup>   | $\rho=0.17$ ( $k=418$ ; $n=252,004$ ) <sup>b</sup> | --                                                 |                                                    |                                                 |
| 5  | Agreeableness                           | $\rho=0.09$ ( $k=1$ ; $n=17,637$ ) <sup>a</sup>   | $\rho=0.11$ ( $k=236$ ; $n=144,205$ ) <sup>b</sup> | $\rho=0.17$ ( $k=243$ ; $n=135,529$ ) <sup>b</sup> | --                                                 |                                                 |
| 6  | Emotional Stability                     | $\rho=0.22$ ( $k=1$ ; $n=17,637$ ) <sup>a</sup>   | $\rho=0.16$ ( $k=423$ ; $n=254,937$ ) <sup>b</sup> | $\rho=0.19$ ( $k=710$ ; $n=440,440$ ) <sup>b</sup> | $\rho=0.25$ ( $k=561$ ; $n=415,679$ ) <sup>b</sup> | --                                              |
| 7  | Leader Self-Efficacy                    | $\rho=0.07$ ( $k=31$ ; $n=9,167$ ) <sup>c</sup>   | $\rho=0.41$ ( $k=17$ ; $n=7,233$ ) <sup>c</sup>    | $\rho=0.34$ ( $k=22$ ; $n=8,322$ ) <sup>c</sup>    | $\rho=0.27$ ( $k=19$ ; $n=7,269$ ) <sup>c</sup>    | $\rho=0.32$ ( $k=21$ ; $n=7,973$ ) <sup>c</sup> |
| 8  | Motivation to Lead - Affective Identity | $\rho=0.05$ ( $k=43$ ; $n=13,070$ ) <sup>c</sup>  | $\rho=0.36$ ( $k=26$ ; $n=8,799$ ) <sup>c</sup>    | $\rho=0.31$ ( $k=30$ ; $n=9,493$ ) <sup>c</sup>    | $\rho=0.57$ ( $k=32$ ; $n=10,049$ ) <sup>c</sup>   | $\rho=0.24$ ( $k=28$ ; $n=9,435$ ) <sup>c</sup> |
| 9  | Motivation to Lead - Social Normative   | $\rho=0.06$ ( $k=43$ ; $n=8,836$ ) <sup>c</sup>   | $\rho=0.25$ ( $k=19$ ; $n=5,807$ ) <sup>c</sup>    | $\rho=0.31$ ( $k=21$ ; $n=5,930$ ) <sup>c</sup>    | $\rho=0.41$ ( $k=23$ ; $n=6,486$ ) <sup>c</sup>    | $\rho=0.20$ ( $k=20$ ; $n=5,374$ ) <sup>c</sup> |
| 10 | Motivation to Lead - Non-Calculative    | $\rho=0.09$ ( $k=23$ ; $n=6,319$ ) <sup>c</sup>   | $\rho=0.15$ ( $k=20$ ; $n=6,564$ ) <sup>c</sup>    | $\rho=0.27$ ( $k=22$ ; $n=6,687$ ) <sup>c</sup>    | $\rho=0.20$ ( $k=0.20$ ; $n=7,243$ ) <sup>c</sup>  | $\rho=0.23$ ( $k=20$ ; $n=6,629$ ) <sup>c</sup> |
| 11 | Leader Emergence                        | $\rho=0.09$ ( $k=136$ ; $n=19,073$ ) <sup>c</sup> | $\rho=0.24$ ( $k=20$ ; $n=NR$ ) <sup>d</sup>       | $\rho=0.33$ ( $k=20$ ; $n=NR$ ) <sup>d</sup>       | $\rho=0.05$ ( $k=23$ ; $n=NR$ ) <sup>d</sup>       | $\rho=0.24$ ( $k=30$ ; $n=NR$ ) <sup>d</sup>    |
| 12 | Transactional Leadership                | $\rho=0.11$ ( $k=7$ ; $n=NR$ ) <sup>e</sup>       |                                                    |                                                    |                                                    |                                                 |
| 13 | Contingent Reward                       | --                                                | $\rho=0.03$ ( $k=6$ ; $n=1,469$ ) <sup>f</sup>     | $\rho=0.02$ ( $k=6$ ; $n=1,469$ ) <sup>f</sup>     | $\rho=0.14$ ( $k=5$ ; $n=1,215$ ) <sup>f</sup>     | $\rho=0.10$ ( $k=7$ ; $n=1,532$ ) <sup>f</sup>  |
| 14 | Management by Exception - Active        | --                                                | $\rho=0.04$ ( $k=6$ ; $n=1,469$ ) <sup>f</sup>     | $\rho=0.02$ ( $k=6$ ; $n=1,469$ ) <sup>f</sup>     | $\rho=0.03$ ( $k=5$ ; $n=1,215$ ) <sup>f</sup>     | $\rho=0.02$ ( $k=7$ ; $n=1,532$ ) <sup>f</sup>  |
| 15 | Transformational Leadership             | $\rho=0.05$ ( $k=44$ ; $n=29,770$ ) <sup>g</sup>  | $\rho=0.15$ ( $k=19$ ; $n=3,887$ ) <sup>f</sup>    | $\rho=0.13$ ( $k=18$ ; $n=3,516$ ) <sup>f</sup>    | $\rho=0.24$ ( $k=20$ ; $n=3,692$ ) <sup>f</sup>    | $\rho=0.17$ ( $k=18$ ; $n=3,380$ ) <sup>f</sup> |
| 16 | Laissez-Faire Leadership                | $\rho=0.16$ ( $k=16$ ; $n=NR$ ) <sup>g</sup>      | --                                                 | --                                                 | --                                                 | --                                              |
| 17 | Passive Leadership*                     | --                                                | $\rho=0.04$ ( $k=7$ ; $n=1,564$ ) <sup>f</sup>     | $\rho=0.11$ ( $k=7$ ; $n=1,564$ ) <sup>f</sup>     | $\rho=0.09$ ( $k=6$ ; $n=1,310$ ) <sup>f</sup>     | $\rho=0.05$ ( $k=8$ ; $n=1,627$ ) <sup>f</sup>  |
|    | Charismatic Leadership                  |                                                   |                                                    |                                                    |                                                    |                                                 |
| 18 | Idealized Influence (Attribution)       | $\rho=0.07$ ( $k=14$ ; $n=12,565$ ) <sup>h</sup>  | $\rho=0.14$ ( $k=4$ ; $n=596$ ) <sup>h</sup>       | $\rho=0.13$ ( $k=4$ ; $n=596$ ) <sup>h</sup>       | $\rho=0.13$ ( $k=5$ ; $n=744$ ) <sup>h</sup>       | $\rho=0.08$ ( $k=5$ ; $n=744$ ) <sup>h</sup>    |
| 19 | Idealized Influence (Behavior)          | $\rho=0.02$ ( $k=15$ ; $n=12,995$ ) <sup>h</sup>  | $\rho=0.10$ ( $k=3$ ; $n=543$ ) <sup>h</sup>       | $\rho=0.15$ ( $k=3$ ; $n=543$ ) <sup>h</sup>       | $\rho=0.11$ ( $k=4$ ; $n=691$ ) <sup>h</sup>       | $\rho=0.06$ ( $k=4$ ; $n=691$ ) <sup>h</sup>    |
| 20 | Inspirational Motivation/Vision         | $\rho=0.02$ ( $k=26$ ; $n=22,802$ ) <sup>h</sup>  | $\rho=0.16$ ( $k=11$ ; $n=1,993$ ) <sup>h</sup>    | $\rho=0.06$ ( $k=9$ ; $n=1,760$ ) <sup>h</sup>     | $\rho=0.25$ ( $k=10$ ; $n=1,908$ ) <sup>h</sup>    | $\rho=0.14$ ( $k=11$ ; $n=2,038$ ) <sup>h</sup> |
| 21 | Servant Leadership                      | $\rho=0.0544$ ( $k=6$ ; $n=1,562$ ) <sup>i</sup>  | $\rho=0.653$ ( $k=9$ ; $n=694$ ) <sup>j</sup>      | $\rho=0.567$ ( $k=12$ ; $n=894$ ) <sup>j</sup>     | $\rho=0.317$ ( $k=9$ ; $n=910$ ) <sup>j</sup>      | $\rho=0.133$ ( $k=6$ ; $n=793$ ) <sup>j</sup>   |
| 22 | Ethical Leadership                      | $\rho=0.152$ ( $k=29$ ; $n=7,398$ ) <sup>i</sup>  | $\rho=0.058$ ( $k=5$ ; $n=1,458$ ) <sup>j</sup>    | $\rho=0.353$ ( $k=9$ ; $n=1,939$ ) <sup>j</sup>    | $\rho=0.123$ ( $k=5$ ; $n=1,458$ ) <sup>j</sup>    | $\rho=0.208$ ( $k=6$ ; $n=691$ ) <sup>j</sup>   |
| 23 | Authentic Leadership                    | $\rho=0.0594$ ( $k=11$ ; $n=2,985$ ) <sup>i</sup> | $\rho=0.411$ ( $k=3$ ; $n=537$ ) <sup>j</sup>      | $\rho=0.496$ ( $k=3$ ; $n=537$ ) <sup>j</sup>      | $\rho=0.452$ ( $k=3$ ; $n=537$ ) <sup>j</sup>      | $\rho=0.351$ ( $k=4$ ; $n=837$ ) <sup>j</sup>   |

Notes: Alphabetical letters after the effect sizes denote the source of the data listed in Appendix II; negative correlations for gender indicate stronger relationship with women.

and thus, may consider entering into leadership more deeply. The remaining relationships between leadership and pre-cursors to leadership included: Leader Self-Efficacy ( $\rho=0.07$ ;  $k=31$ ;  $n=9,167$ ); Motivation to Lead-Affective Identity ( $\rho=0.05$ ;  $k=43$ ;  $n=13,070$ ); and, finally, Motivation to Lead – Social Normative ( $\rho=0.06$ ;  $k=43$ ;  $n=13,070$ ).

### **Test of Research Questions 4-11 – Leader Behaviors**

Research questions 4-9 measured the magnitude of the relationship between gender and each of seven leadership constructs: transformational leadership, transactional leadership, laissez-faire leadership, charismatic leadership, servant leadership, ethical leadership and authentic leadership. Transformational leadership had a stronger relationship ( $\rho=-0.05$ ;  $k=44$ ;  $n=29,770$ ) with women leaders, however the relationship was relatively small, demonstrating that this construct may not lend itself to the idea “Think Transformational, Think Female”. Transactional leadership ( $\rho =0.11$ ;  $k=7$ ;  $n=NR$ ); and laissez-faire leadership ( $\rho =0.16$ ;  $k=16$ ;  $n=NR$ ) demonstrated stronger relationships with gender, favoring men, which is consistent with prior research.

Four emerging leadership constructs were also reviewed: charismatic leadership, servant leadership, ethical leadership and authentic leadership. The existing meta-analysis on charismatic leadership did not provide a composite correlation between gender and charismatic leadership, so it was reviewed as a function of its components – idealized influence-attribution, idealized influence-behavior, and inspirational motivation/vision. Servant leadership, ethical leadership and authentic leadership did not have existing meta-analyses that addressed correlations with gender, so a primary study exploration was conducted to complete this part of the correlation matrix. Correlations between charismatic leadership components and gender indicated a weak

relationship: idealized influence-attribution ( $\rho = -0.07$ ;  $k=14$ ;  $n=12,565$ ); idealized influence-behavior ( $\rho = -.02$ ;  $k=15$ ;  $n=12,995$ ); and inspirational motivation/vision ( $\rho = -0.02$ ;  $k=26$ ;  $n=22,802$ ), with all evaluations slightly favoring women. Servant leadership ( $\rho = -0.0544$ ;  $k=6$ ;  $n=1,562$ ) and authentic leadership ( $\rho = .0594$ ;  $k=11$ ;  $n=2,985$ ) primary studies resulted in nearly identical results, indicating a weak relationship between gender and follower evaluation of these constructs. Ethical leadership ( $\rho = 0.152$ ;  $k=29$ ;  $n=7,398$ ) showed a stronger relationship between gender and follower evaluation, favoring men.

A primary focus of this study has been understanding the degree to which leadership studies are attempting to understand actual leader behaviors. In the meta-analyses used in this study, only motivation to lead and leader-self-efficacy used self-report data, all remaining meta-analyses used follower evaluation. The primary studies that were used for the exploration of authentic, servant and ethical leadership were 100% measured using follower evaluation. Prior research indicates that follower evaluation is subject to bias as it is measuring the followers' perceptions of those constructs, rather than actual behaviors (Banks, Woznyj, et al., 2021).

### **Test of Research Question 12 - Personality**

In order to understand relative importance of personality compared to gender, the components of the Big 5 Personality traits were also included in the meta-analytic correlation matrix. Depending on the source, some meta-analyses included neuroticism in the Big 5 personality traits, while others included emotional stability. Where neuroticism was included, I reversed the sign to make consistent with the emotional stability measure. For the construct of transactional leadership, no composite score was provided in existing meta-analysis, so the correlation between transactional leadership and personality is shown through its component measures – contingent reward and management by exception – active. Laissez-faire leadership

was measured as a function of the construct passive leadership. Similar to the treatment of transactional leadership, charismatic leadership is shown as a function of its components.

The correlations between personality and each of the leadership constructs suggests that the strength of the relationship between personality and leadership is stronger than gender, with the strongest relationships in the following constructs: Motivation to Lead-Affective Identity and Extraversion ( $\rho = 0.57$ ;  $k=32$ ;  $n=10,049$ ); Servant Leadership and Openness ( $\rho = 0.065$ ;  $k=9$ ;  $n=694$ ); Servant Leadership and Conscientiousness ( $\rho = 0.592$ ;  $k=12$ ;  $n=894$ ); and Servant Leadership and Agreeableness ( $\rho = 0.592$ ;  $k=13$ ;  $n=1,236$ ).

### **Relative Weights Analysis**

Using the data from the meta-analytic correlation table, I conducted a relative weights analysis in order to determine if gender or personality attributes explained the most variance in follower evaluation for each of the constructs. Relative weights analysis is a method used to partition explained variance among multiple predictors to understand the role each of the predictors plays in a regression equation (Tonidandel & LeBreton, 2011).

For many of the constructs, extraversion was the most dominant predictor, including leader efficacy (34.92% of  $R^2 = 0.4767$ ), motivation to lead – affective identity (39.61% of  $R^2 = 0.4232$ ), motivation to lead – social normative (42.86% of  $R^2 = 0.3307$ ), transformational leadership (45.16% of  $R^2 = 0.0991$ ), inspirational motivation (54.22% of  $R^2 = 0.0911$ ). Conscientiousness was the most dominant predictor for leader emergence (42.68% of  $r^2 = 0.1602$ ), idealized influence – behavior (34.91% of  $R^2 = 0.0534$ ), and authentic leadership (33.22% of  $R^2 = 0.6317$ ). Agreeableness was the most dominant predictor of motivation to lead – non-calculative (39.85% of  $R^2 = 0.2008$ ) and ethical leadership (42.5% of  $R^2 = 0.2609$ ). Openness

was the most dominant predictor for idealized influence – attribution (27.33% of  $R^2 = 0.0601$ ) and servant leadership (34.53% of  $R^2 = 1.2487$ ).

Gender was not the dominant predictor for any of the leadership constructs, with relative weights for each of the attributes as follows: leader self-efficacy (1.48% of  $R^2 = 0.4767$ ); motivation to lead – affective identity (0.98% of  $R^2 = 0.4232$ ); motivation to lead – social normative (2.22% of  $R^2 = 0.03307$ ); motivation to lead – non-calculative (3.7% of  $R^2 = 0.2008$ ); leader emergence (4.69% of  $R^2 = 0.1602$ ); transformational leadership (2.9% of  $R^2 = 0.0991$ ); idealized influence – attribution (6.65% of  $R^2 = 0.0601$ ); idealized influence – behavior (0.26% of  $R^2 = 0.0534$ ); inspirational motivation (0.61% of  $R^2 = 0.0911$ ); servant leadership (0.37% of  $R^2 = 1.287$ ); ethical leadership (11.57% of  $R^2 = 0.2609$ ); and authentic leadership (1.18% of  $R^2 = 0.6317$ ).

## CHAPTER FIVE: DISCUSSION

### Theoretical Contributions

While there has been an ever-increasing body of literature related to leadership behaviors and subsequent calls for research to help identify pathways to increase the number of women in leadership positions, there has been very little integration of theory that allows for a clear roadmap for future research and improvements in practice. This study provided five theoretical contributions to the literature.

First, in order to address the proliferation of theory, in this review, I presented a framework of gender and leadership through the lens of signaling theory and status characteristics theory. To form the foundation of this framework, I introduced a leadership process model that demonstrates the constructs that precede entry to leadership such as leader salience/leader self-efficacy, motivation to lead, leader emergence. This process model concludes with leader behavior and subsequent follower evaluation. Gender theory was then layered onto this leadership framework in order to demonstrate how gender impacts ability and interest to attain leadership and then, subsequently, be evaluated positively as a leader. Signaling theory and status characteristics theory served as a critical lens to demonstrate how gender bias is perpetuated in leadership. Gender is a status characteristic that culturally implies a certain fit or misfit for positions of leadership. Because women attempting to attain certain leadership positions are aware of these cultural perceptions of gender, consistent with signaling theory, they will adapt their behaviors to influence the way that they are perceived – in some cases attempting to act more agentic or communal, depending on the audience. Receivers of these signals may

then interpret these signals through the lens of their bias, influencing follower evaluation of the women's actual leader behaviors.

The second theoretical contribution of this dissertation is that it offers a primer on gender and leadership, with relevant theoretical definitions and the role of leadership constructs in gender theory. This primer offers an overview of the antecedents and outcomes of leadership attainment, including leader salience, motivation to lead, leader emergence and follower evaluation. It also offers an overview of leader styles/behaviors, including transformational leadership, transactional leadership, laissez-faire leadership, charismatic leadership, servant leadership, ethical leadership, authentic leadership. Gender theories reviewed include: theory of gendered organizations, status characteristics/expectation states theory, social role and role congruity theory, shifting criterion theory, and backlash effects and the double bind. Gender studies and leadership studies are often considered as two separate disciplines and this dissertation serves as an entry point for scholars to begin to have a conversation about gender and leadership through the lens of each. Meta-analytic results indicate relatively small levels of variation in follower evaluations of leader behaviors, however, statistical data related to women's ascent into leadership positions suggests that cultural expectations related to gender are still impacting these outcomes, whether through the amplification of bias as women climb the ladder or through other structural attributes of the workforce, including occupational segregation of labor and unequal caregiving responsibilities of women.

Third, this dissertation includes a second order meta-analysis examining the reviewed leadership constructs, gender and Big Five personality traits. Because no extant meta-analysis for gender and servant, ethical and authentic leadership existed, a primary exploration was conducted on these constructs. Next, a relative weights analysis was conducted to understand the



dominant predictors of follower evaluation when considering the Big 5 personality traits and gender. Finally, this dissertation offers an exploration and interpretation of these results. Through this meta-analysis, it was demonstrated that there are differences in follower evaluation of leader behaviors across a variety of constructs, ranging from pathways to leadership attainment to evaluation of leadership behaviors. In only four instances does this variance favor women: motivation to lead – non-calculative, transformational leadership, idealized influence – attribution and servant leadership. The subsequent relative weights analysis demonstrated that gender was not the dominant predictor for any of the key constructs when compared to personality, but it is important to note that follower interpretation of various personality traits may vary depending on leader-follower gender combinations, as is the case with leader voice (Ernst et al., 2022).

Fourth, this dissertation synthesizes the literature and develops a future research agenda based on the findings of the leadership exploration and meta-analyses to advance the field of gender and leadership studies. In many ways, this dissertation offers more questions than it does answers. In most cases, men and women are getting very similar evaluations across the studied leadership constructs, however, there remains a gap in leadership outcomes such as leadership attainment. Offered research recommendations are focused on a few primary research outcomes. First, shifting the focus in leadership research to specific behaviors in order to provide actionable insight to practitioners to help support women who hope to attain a leadership position. Second, to understand the role of moderators such as follower gender, leader gender and occupational context. In most cases, research does not currently identify both the follower gender and leader gender in survey results, which creates ambiguity in results. Third, I recommend the development of a framework for how leader signaling behaviors are modified by gender – either

due to anticipation of backlash or through actual backlash. Finally, perceptions of women leaders have remained stable over time, in spite of increased funding and interest in driving workplace equality. My final research recommendation is to develop theory as to why gender bias continues to persist in spite of shifting workplace values and company investment.

Finally, this dissertation further amplifies a methodological gap in the literature related to the degree to which leadership research is measuring actual behaviors versus follower evaluations of the behaviors, which may be subject to bias. I provided complementary evidence to several recent studies that show that actual behaviors are not currently being studied (Banks, Fischer, et al., 2021; Banks, Woznyj, et al., 2021; Fischer, Hambrick, Sajons, & Van Quaquebeke, 2020). In this study, the only data presented that was not based on evaluation were meta-analysis related to leader self-efficacy and motivation to lead, both of which are self-report data.

### **Practical Implications**

This dissertation has four primary implications for practitioners who want to improve the likelihood of advancement for women into leadership positions. First, it provides a framework for practitioners to understand the phases of leadership development and how they are impacted by gender. Prior to leadership attainment, women are less likely to perceive themselves as having leadership potential and may be less motivated to lead. Following leadership attainment, bias in follower evaluations may prevent women from being perceived as strong leaders and fail to advance in their careers.

Second, this dissertation illuminates the need for leadership training to be modified to help men and women leaders understand when different behaviors may need to be used to fit the

context. Women leaders are more likely to experience backlash for agentic behavior, which in a man could be perceived as being a strong leader, which subsequently impacts follower evaluation. Learning how to flex different behaviors situationally can help reduce the impacts of bias in the workplace. A pending question in the literature asks if certain leadership styles (ex: servant, authentic, transformational) were more effectively used by men or women, however, research indicates that this is not the case, and that in different contexts there is a need for varying approaches. Follower gender, leader gender and occupational context were all moderators that should be considered.

Third, this paper builds on prior research to demonstrate that follower evaluation is subject to bias because in many cases what is being measured is the perception of leader behaviors rather than the actual behaviors that are being performed. This paper, however, largely demonstrates that followers are evaluating men and women similarly for most leadership constructs. This has significant implications for how performance evaluations should be used when considering potential leaders for advancement, as research indicates that these evaluations may not tell the entire story when it comes to leadership potential and attainment.

Finally, from a social standpoint, this paper also suggests that more work needs to be done regarding structural inequalities that continue to drive inequality in the workplace. Further research needs to be done to study leader behaviors, but also the structural inequalities that drive poor penetration of women in leadership positions, including things like occupational segregation of labor, which women being placed into less hierarchical occupations, and unequal caregiving responsibilities that primarily negatively impact women.

This dissertation brings to light that largely, men and women are getting similar evaluations across leadership constructs, however, there are some outstanding questions that

have been raised through the current research that will support efforts by practitioners to create impactful avenues, such as training, for women to attain and retain leadership positions. First, further evaluation is needed to understand what actual behaviors men and women enact to that lead to similar evaluations and to what degree are these behaviors similar or different. Second, further research is needed as to which moderators should be studied and acknowledged both in theory and in practice. For instance, should women or men modify their behaviors if an occupation is heavily sex-segregated? Or if the industry is sex-segregated? Finally, further research is required to determine the degree to which even the small bias demonstrated in this study impacts long term outcomes creates real differences in advantage for women.

### **Limitations and Future Research Directions**

This research has several limitations that warrant discussion. First, this second-order meta-analysis fails to address gender roles outside of the gender binary. Most studies with gender as a moderating variable include only the male and female gender role. Some studies further this research by attempting to understand evaluation impacts of androgynous leader behaviors – which are defined as enacting both masculine and feminine behaviors (Powell et al., 2021). Because research to understand how non-binary gender roles affects leadership behavior and evaluation is still emerging, no meta-analyses were found for inclusion in this study.

Second, the results of this research are based on meta-analytic estimates and results are bound by those data and the inherent limitations that come with them. There are five limitations that warrant discussion. First, inclusion and exclusion criteria review authors used to select the studies could bias the estimates. Several of the meta-analyses reviewed are heavily weighted to United States or European samples, which have a high gender egalitarianism, which could

decrease evidence of bias. Further, the included meta-analyses needed to include gender as a moderator, which eliminated a substantial number of meta-analyses from consideration. Second, in many cases, I was unable to collect information such as study artifacts, measurement details or various demographic factors that could be used as moderating variables, outside of the variable of interest, gender. Primary examples of moderators of interest include occupational context, age, and race. Such information could be used to help explain focal relationships better, as research results have been demonstrated to vary under different conditions and under different circumstances. For instance, research results may vary in a male vs. female dominated industry or under conditions of a struggling versus a high-performing company. Third, different scales were used for measurement of some of the focal constructs. Several of the emerging leadership constructs, where key definitions and measurement criteria are still under academic discussion are particularly subject to this limitation. For instance, ethical leadership and moral leadership are both used in meta-analyses, with ethical leadership being the focus in western culture and moral leadership being the focus in eastern culture. Different scales were also used within and between these measures. Fourth, in much of the research it was difficult to determine if the research was conducted in a lab or field study, which has been shown to impact results related to gender. Finally, through this research we are unable to determine causal relationships – gender and personality are exogenous variables. As more moderators, outcomes and antecedents are identified, further research will need to be conducted to address this concern, particularly regarding the iterative modification and interpretation of gendered leader signals.

A final limitation of this research is that contextual moderating variables should be identified in future research, including variables such as cultural gender egalitarianism and occupational gender segregation in measured samples. For instance, it has been demonstrated

that bias against women is amplified in male-dominated occupations and industries. Also, a more thorough understanding of the gender composition of leader-follower dyads, and the level of the studied leader could also support research understanding. Finally, a more thorough study of the intersectionality of gender, age and race could aid in understanding the interactions of the focal constructs.

### **Roadmap for Future Research**

A final contribution of this dissertation is to translate the results of this study into actionable research directions to further extend the field of gender and leadership. The future research directions I offer are intended to help further define the conditions under which gender impacts the ascent of women into leadership positions. To accomplish this, I identify four main takeaways from my results, identify relevant research questions related to these results, and offer the expected theoretical contribution from each of these recommendations, summarized in Table 3.

**Table Three: Agenda for Future Research on Gender and Leadership**

| <b>Key Finding</b>                                                                                                                                                                                                       | <b>Sample Research Question</b>                                                                                                                     | <b>Theoretical Consequence</b>                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommendation #1: Shift focus in gender and leadership studies to research on specific behaviors to understand the impact of actual behaviors on leadership outcomes.</b>                                            |                                                                                                                                                     |                                                                                                                                                                                                               |
| Few, if any, research studies measured impacts of actual leader behaviors, but rather, measured follower evaluations of those behaviors, which are subject to bias.                                                      | How does leader gender impact follower evaluation of actual behaviors associated with leadership styles such as servant, ethical, etc.              | Supports the identification of specific behaviors that can help women improve women's associations with leadership and behaviors that are subject to increased bias in follower evaluation.                   |
| <b>Recommendation #2: Clarify the relationships between follower gender, leader gender, and occupational context.</b>                                                                                                    |                                                                                                                                                     |                                                                                                                                                                                                               |
| Follower gender, leader gender, and occupational context have been identified as moderators of follower evaluation, but no integrated framework has been presented to summarize these relationships.                     | How do follower gender, leader gender and occupational context impact follower evaluation of leader emergence and leader behaviors?                 | Clarifies the patterns of relationships among follower gender, leader gender and occupational context.                                                                                                        |
| <b>Recommendation #3: Develop a framework for understanding the interplay between leader signaling, interpretation of those signals, and leader beliefs regarding signal interpretation, through the lens of gender.</b> |                                                                                                                                                     |                                                                                                                                                                                                               |
| Leader signaling is a dynamic process heavily influenced by gender dynamics in the workplace, with women leaders anticipating signal interpretation and modifying their behaviors to fit those expectations.             | How and under what conditions do leaders modify their behaviors to fit context and expectations of follower evaluations?                            | Extends signaling theory and status characteristics theory to increase understanding of leader modifications of behavior based on organizational context and expectations for follower signal interpretation. |
| <b>Recommendation #4: Develop theory related to the stability of perceptions of women leaders, when research suggests that communal characteristics are increasing in demand in the workplace.</b>                       |                                                                                                                                                     |                                                                                                                                                                                                               |
| Research has demonstrated that communal characteristics are in higher demand in the workplace, however, perceptions of women leaders have remained stable over time                                                      | How and under what conditions does increased workplace importance placed on communal characteristics improve perceptions of women in the workplace? | Identifies boundary conditions of shifting workplace values' impacts on gender bias in follower evaluation.                                                                                                   |

***Recommendation #1: Shift focus in gender and leadership studies to research on specific behaviors to understand the impact of actual behaviors on leadership outcomes.***

The first proposed recommendation is to shift focus in gender and leadership studies to focus on specific actual behaviors. Prior research indicates that relatively few studies measure actual behaviors as opposed to follower evaluations of those behaviors (Banks, Woznyj, et al., 2021). Outside of self-report studies related to motivation to lead and leader self-efficacy, most of the leadership constructs measured as part of this study are measured through follower perceptions of those behaviors, which have been demonstrated to be subject to bias (Hoyt & Burnette, 2013; Neschen & Hügelschäfer, 2021). This is particularly important to understand as small amounts of bias have been demonstrated through simulation to increase disparities in hiring in upper leadership. The practical implication of this research extension is that it will provide a framework for women leaders to understand which actual behaviors will drive positive follower evaluation and leader perceptions.

***Recommendation #2: Clarify the relationships between follower gender, leader gender, and occupational context.***

The second recommendation is to clarify the relationships between follower gender, leader gender and occupational context. Leadership studies indicate that follower and leader gender dyad composition can lead to variation in follower evaluations (Wang et al., 2019) and that occupational context is a significant predictor for gender-based bias (Maume Jr, 1999). Extending the literature to present a framework for how follower gender, leader gender and occupational context interact will help support future research studies on leadership attainment and follower evaluation through the presentation of a more holistic view of how dyad gender and occupational context influence bias and inequality in the workplace.



***Recommendation #3: Develop a framework for understanding the interplay between leader signaling, interpretation of those signals, and leader beliefs regarding signal interpretation, through the lens of gender.***

The third recommendation of this research roadmap is to develop a framework that extends signaling theory and status characteristics theory to increase understanding of leader modifications of behavior based on organizational context and expectations for follower signal interpretation. Leader signaling is a dynamic process heavily influenced by gender, with women leaders anticipating signal interpretation and modifying their behaviors to fit those expectations in order to avoid backlash and be viewed as an appropriate fit to the leadership role (Rudman & Phelan, 2008). Extant leadership research has leaned into follower evaluations of leader behaviors, but very little research has attempted to understand how leaders make a choice to enact authentic behaviors or modify their behavior to account for potential workplace bias.

This framework will further clarify key relationships between gender and leadership theory that impact women's ability to enact authentic behaviors in the workplace and further define how signaling is impacted by perceived bias.

***Recommendation #4: Extend theory related to the stability of perceptions of women leaders, when research suggests that communal characteristics are increasing in demand in the workplace.***

Research has suggested that modern leadership constructs such as transformational, servant, ethical and authentic leadership styles may lend themselves more to the communal characteristics more closely associated with women (Kapasi et al., 2016; Stempel et al., 2015), however, perceptions of the appropriateness of women in leadership positions have remained

relatively stable over the last few decades (Kolb, 1997). This lends itself to the research question regarding why women are not being perceived more favorably as workplace values have evolved. The literature could benefit from an exploration of how shifting workplace values shift the importance of attributes in identifying appropriate leaders and subsequent evaluation of those leaders.

## **Conclusion**

Concerns about the continued poor ascent of women into upper leadership positions have continued to grow, particularly in light of shifts in workplace models as a result of Covid-19. While there is a proliferation of research on leadership behaviors and gender theory related to leadership, the volume of literature available and conflicting results makes it difficult for researchers to answer a basic question - "When and how does gender matter when considering leadership attainment and follower evaluation of leader behaviors?" The current second-order meta-analysis presents a comprehensive view of the current landscape of gender and leadership relationships and suggests that bias, while small, exists across most of the major measures of leadership. Further analysis indicated that gender was a relatively poor predictor of evaluations of leaders, especially when compared with the Big 5 personality traits. This is problematic because while bias is small in this study, the substantial difference in leadership outcomes for men versus women suggests that substantial structural inequalities are still driving disadvantage for women.

This suggests that significant gaps in the literature need to be filled in order to more fully explain continued gender bias in the workplace that impacts women's ability to attain and retain leadership positions, through further exploration of moderators of gender and leadership

outcomes, a better understanding of actual behaviors that should be enacted to support leadership perceptions, and new frameworks for understanding leadership signaling.

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## APPENDIX ONE: PRIMARY META-ANALYSIS ARTICLES

### Authentic Leadership

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**APPENDIX TWO: SECOND ORDER META-ANALYSIS REFERENCES**

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