How to improve funding outcomes for female entrepreneurs

Does industry served come into play when investors make funding decisions involving female vs. male entrepreneurs seeking capital? Yes, the perception of industry fit does play a role, says Dr. Dana Kanze, Assistant Professor of Organisational Behaviour at London Business School. Dr. Kanze, along with an international research team, set out to investigate whether female-led ventures were particularly disadvantage in raising funds when serving male- vs. female-dominated industries. By conducting two complementary studies, the team shed light on a unique manifestation of gender bias that affects funding, valuation, and equity outcomes for female entrepreneurs. This research has particular relevance for supporting post-pandemic female entrepreneurs across the globe.

Despite decades of public and private sector efforts to bolster women’s representation in the labour market, gender inequality remains stubbornly present across the corporate world. Only 6% of S&P 500 companies have a female CEO, and women in the workforce earn approximately 80% of what men do. Support and opportunities for women’s advancement are particularly limited in male-dominated industries, which constitute the majority of the labour market. Dr. Kanze, Assistant Professor of Organisational Behaviour at London Business School, acknowledges that many women faced with a continuing lack of earnings and growth prospects in male-dominated industries seek to gain traction by instead founding their own ventures.

Having done so, those female entrepreneurs may face new barriers in raising funds for their ventures. We already know that 39% of privately held businesses in the U.S. are owned by women, while less than 3% of U.S. venture capital funding is allocated to female-led ventures. Studies have shown that a significant gender gap persists even when accounting for factors that can affect funding, like the venture’s need for capital and the quality of the venture and founder (Kanze et al., 2018). But what if these gender disparities are even more pronounced in male-dominated industries?

**STUDIES THE RESEARCHERS PERFORMED**

Assisted by an internationally renowned team of collaborators, consisting of Mark A. Conley (House of Innovation, Stockholm School of Economics), Tyler G. Okimoto (The University of Queensland), Damon J. Phillips (Kwazulu-Natal Business School), and Jennifer Merluzzi (George Washington University), Dr. Kanze set out to identify the role that industry plays in decisions to fund female- vs. male-led ventures. Their research was conducted via i) an observational study of nearly 400 ventures. Their research was conducted via i) an observational study of nearly 400 comparable tech ventures led by male vs. female founding CEOs across industries of measured gender dominance that was then coupled with ii) an experiment conducted on 130 investors exposed to tech venture investment opportunities led by male vs. female founding CEOs catering to industries manipulated for gender dominance. Both studies departed from a point of venture comparability, and then the research team ensured their models accounted for a variety of factors found to impact outcomes related to funding.

**EFFECTS THE RESEARCHERS FOUND**

Across both their studies, the co-authors first and foremost confirmed that female-led ventures are significantly disadvantaged in their efforts to raise funding versus their male-led venture counterparts, in keeping with prior research (Kanze et al., 2018). Extending their analyses beyond funding amounts, the co-authors investigated additional metrics relevant to ventures seeking funding. Aside from being allocated less funding, the co-authors went on to find that female-led ventures are also priced at significantly lower valuations than male-led ones, and their respective female founding CEOs retain significantly less equity than male founding CEOs in the process.

For all three of the key metrics explored—funding, valuation, and equity—the co-authors discovered that overall gender disparities are aggravated in male-dominated industries where female-led ventures face a unique handicap, while industry gender dominance does not impact funding outcomes for male-led ventures. When it comes to male-dominated industries, the observational study revealed that male-led ventures raise on average more than 10 times as much as female-led ventures in the field. The experimental study reinforced these significant funding disparities while also indicating that investors place a significantly higher valuation on male- as opposed to female-led ventures in male-dominated industries equating to over $8.5 million more on average. In doing so, investors enable male founding CEOs to retain an average of 12% more equity than female founding CEOs within these male-dominated industries.

The significant disparities the co-authors also found when looking within founder gender demonstrate that a female founding CEO will be more challenged in her efforts to raise funds at a favourable valuation while retaining equity when pitching a venture that caters to a male-dominated industry (e.g. a FinTech venture) than to a female-dominated one (e.g. a Fashion Tech venture). The research team found that male-led ventures instead experience statistically similar funding-related outcomes when at the helm of a venture catering to a female-dominated industry just as they would a male-dominated one.

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<table>
<thead>
<tr>
<th>Metric</th>
<th>Male Founding CEO</th>
<th>Female Founding CEO</th>
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<tbody>
<tr>
<td>Avg. Funding Amounts in Male-Dominated Industries ($ in millions)</td>
<td>$21.8MM</td>
<td>$2.1MM</td>
</tr>
<tr>
<td>Avg. Venture Valuations in Male-Dominated Industries ($ in millions)</td>
<td>$11.3MM</td>
<td>$2.8MM</td>
</tr>
<tr>
<td>Implied Equity Retention in Male-Dominated Industries (% Retained)</td>
<td>76%</td>
<td>64%</td>
</tr>
</tbody>
</table>

Figure reflects the observational study’s average funding obtained by ventures with male vs. female founding CEOs in male-dominated industries.

Figure reflects average experimental study responses for valuation at which investors would allocate funding to venture opportunities led by male vs. female founding CEOs in male-dominated industries.

Figure reflects average implied equity percentages based on experimental study responses for funding and valuation of ventures led by male vs. female founding CEOs in male-dominated industries.

**A cognitive bias can sway our perception of how female founders fit with their ventures.**
MECHANISM BEHIND THE EFFECTS

In order to investigate the drivers behind these interaction effects, the co-authors designed their experiment to capture both investors’ perceptions of standalone ventures and their founding CEOs, as well as perceptions of fit between the ventures and their respective founding CEOs. The experimental results revealed that investors rated the standalone ventures and founding CEOs similarly, but they perceived a female founding CEO to be significantly less of a fit with her venture when catering to a male-dominated industry as opposed to a female-dominated one. In contrast, investors did not perceive significant fit differences for the male founding CEOs with their ventures across industries.

The co-authors found support for this measure of fit as serving to mediate the relationship between the experimental conditions and their main outcomes of interest, whereby perceived lack of fit helped to explain why female—but not male-led ventures received less funding at lower valuations depending on industry served. Female founders were penalised when raising funds for their ventures based on industry served.

By sharing the findings from these studies, Dr Kanze and her team hope to improve outcomes for female entrepreneurs across labour markets by deepening our collective understanding of gender-based misperceptions that lurk in these male-dominated industries. Considered in tandem with other recent work, this research highlights the hampered potential of female-led ventures. In situations where female-led ventures receive comparable amounts of investment to their male-led counterparts, recent research shows that they can in fact outperform male-led ones in male-dominated industries. Taken together, research indicates that negative investor perceptions of lack of fit are inhibiting growth, profitability, and overall potential of female entrepreneurs to expand their businesses and employ more people over time. In thwarting funding, valuation, and equity outcomes for female entrepreneurs, we are also triggering downstream consequences: women are prevented from amassing comparable amounts of personal wealth as well as from becoming serial entrepreneurs. To address this, we need to advance what we have gleaned from the individual founding teams and investing teams. This work is intended to advance what we have gleaned from the individual investor and founding CEO perspective.

Dr Kanze hopes to improve outcomes for female-entrepreneurs across labour markets. Essentially, female but not male founders face a misperceived “lack of industry fit” in gender-incongruent industries. When those investment opportunities are evaluated by accredited rather than non-accredited investors, this attenuation of lack-of-industry-fit bias among sophisticated investors indicates it may be beneficial to promote financial decision-making literacy for investors involved in early-stage venture funding.

KEY IMPLICATIONS

Dr Kanze and her team point out that the findings represent a distinct “double bind” for female entrepreneurs seeking investment. In the eyes of investors, female entrepreneurs are perceived as representing a potential venture fit only when targeting female-dominated industries. But these female-dominated industries make up a limited portion of the overall labour market and tend to offer somewhat less earnings potential. In contrast, male entrepreneurs are enabled to perform across a spectrum of sectors within the labour market without encountering these kinds of barriers. At the same time, female-led ventures in female-dominated industries are also likely to face challenges in their interactions with investors. Since the majority of investment decision-makers are men and thus not well-represented in female-dominated industries, they have comparatively less industry expertise to provide hands-on support for the growth of these ventures in their portfolios.

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Research Objectives

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Detail

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Bio

Dr Dana Kanze is an Assistant Professor of Organisational Behaviour at London Business School. Dr Kanze holds a Bachelor of Science in Economics from The Wharton School and a Doctor of Philosophy from Columbia Business School. Her research applies behavioural insights to understand and address sources of labour market inequality.

Funding

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Collaborators

• Mark A. Conley (House of Innovation, Stockholm School of Economics)
• Tyler G. Okimoto (The University of Queensland)
• Damon J. Phillips (Columbia Business School)
• Jennifer Merluzzi (George Washington University)

References


Personal Response

How are you planning to advance your research?

Together with colleagues, I am exploring other factors that impact the interactions between investors and founding candidates, taking into account the dynamics involved in the founding teams and investing teams. This work is intended to advance what we have gleaned from the individual investor and founding CEO perspective.