

## Merging Gender, Society, and Technology: The STEM Paradigm

### Description and Goals

This circle is a comprehensive examination of the intersections among gender, societal structures, and technology within MINT disciplines (Mathematics, Information sciences, Natural sciences, and Technology). It takes inspiration from scholars like Wajcman (2010) and Faulkner (2001), who have extensively studied the relationship between gender and technology.

This circle acknowledges that the MINT fields have historically been male-dominated (Ceci & Williams, 2011). However, in recent years, there's been a growing emphasis on promoting gender equity in these areas (Hill, Corbett, & Rose, 2010). This research explores the current gender dynamics in MINT fields, societal influences contributing to these dynamics, and how technology might be gendered in its design and use (Faulkner, 2001).

Moreover, the circle explores potential strategies for promoting greater gender inclusivity within MINT disciplines, such as encouraging early engagement with MINT subjects for girls, addressing unconscious bias in MINT education and workplaces, and designing technology that is inclusive and free from gender bias (Cheryan, Ziegler, Montoya, & Jiang, 2017).

Through an interdisciplinary lens, this research contributes to ongoing conversations about gender, society, and technology. It offers valuable insights for educators, policymakers, researchers, and technology designers invested in promoting gender equity within the MINT disciplines and beyond.

#### References:

- Ceci, S. J., & Williams, W. M. (2011). Understanding current causes of women's underrepresentation in science. *Proceedings of the National Academy of Sciences*, 108(8), 3157-3162.
- Cheryan, S., Ziegler, S. A., Montoya, A. K., & Jiang, L. (2017). Why are some STEM fields more gender balanced than others? *Psychological Bulletin*, 143(1), 1.
- Faulkner, W. (2001). The technology question in feminism: A view from feminist technology studies. *Women's Studies International Forum*, 24(1), 79-95.
- Hill, C., Corbett, C., & Rose, A. (2010). Why so few? Women in science, technology, engineering, and mathematics. AAUW.
- Wajcman, J. (2010). Feminist theories of technology. *Cambridge Journal of Economics*, 34(1), 143-152.

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