



Inclusion Really Does Matter: Understanding and Improving attitudes towards gender equality initiatives in STEM

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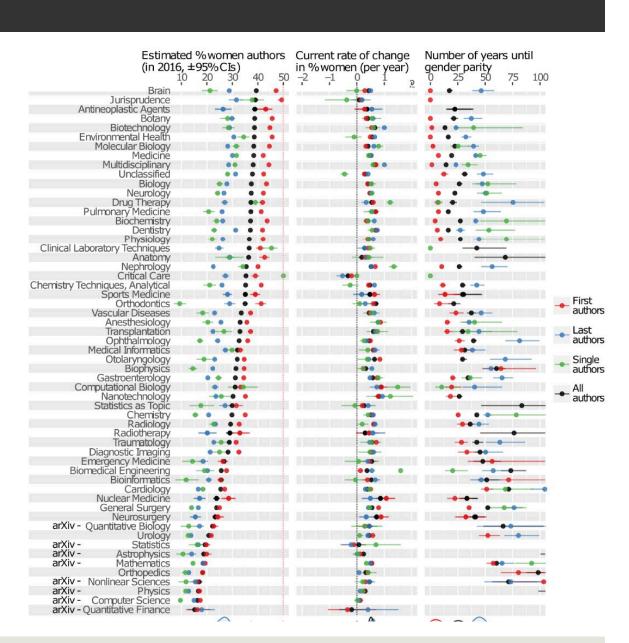




Background

Gender Equality Initiatives in academia are becoming prevalent in the last few years/decades

However, progress is slow (Holman et al., 2017)





Background

Increasing diversity can generate negative cognitive, emotional, and behavioural responses (e.g., Craig & Richeson, 2014)

Diversity initiatives can have unintended negative consequences (Kaiser et al., 2013, Kirby, Kaiser & Major, 2015; Dover, Major & Kaiser, 2014)

Similarly, academic gender equality initiatives are often met with negative attitudes (Ovseiko et al. 2017, Tzanakou et al. 2019), leading to less support from academics

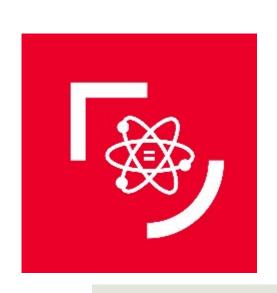




Project

EPSRC Inclusion Really DoesMatter







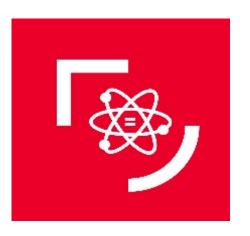




EPSRC Inclusion Really Does Matter

Main goals

- (1) to **understand** the factors that make gender equality initiatives (**GEI**) more or less effective
- (2) to **build training tools** aimed at improving attitudes towards equality diversity initiatives
- 6 experimental studies on STEM academics





Project Overview

- Part 1: Content of Gender Equality Initiatives (4 studies)
- Part 2: Framing of Gender Equality Initiatives (2 studies)





Inclusion Matters: Study 1 (Content)

Research question: What should be the content of GEIs if we want to engage male STEM academics?

N = 72 male STEM academics (VR, lab-based)

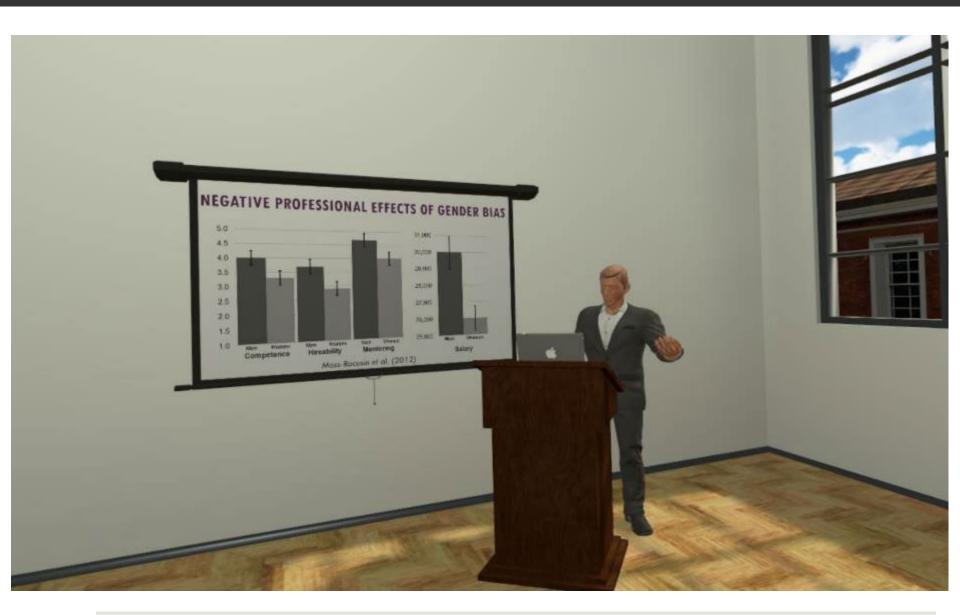
Factors:

- evidence based information about gender bias
- 2. perspective-taking with female academics





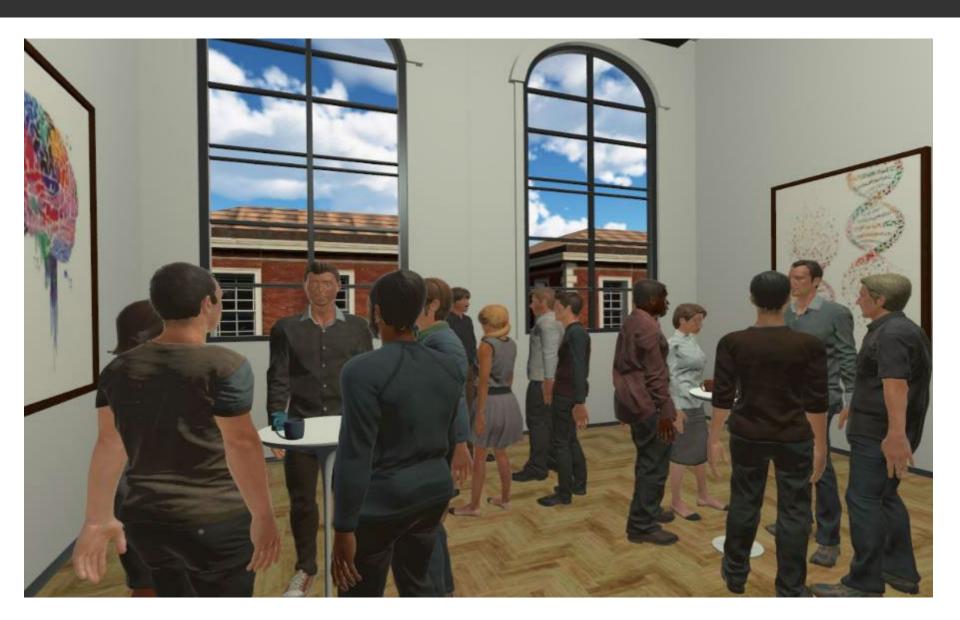






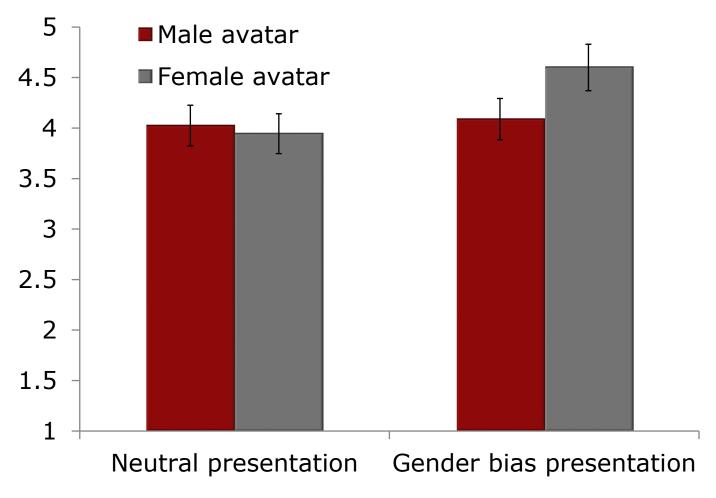








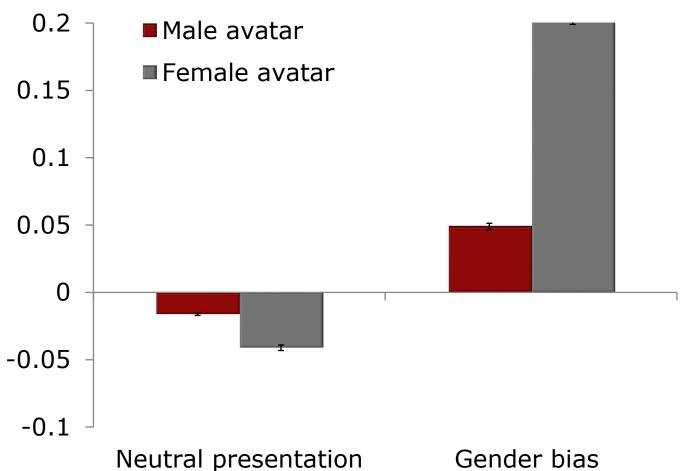
Inclusion Matters: Study 1. Explicit attitudes



F(1, 68) = 4.25, p = .043.



Inclusion Matters: Study 1 Implicit Attitudes

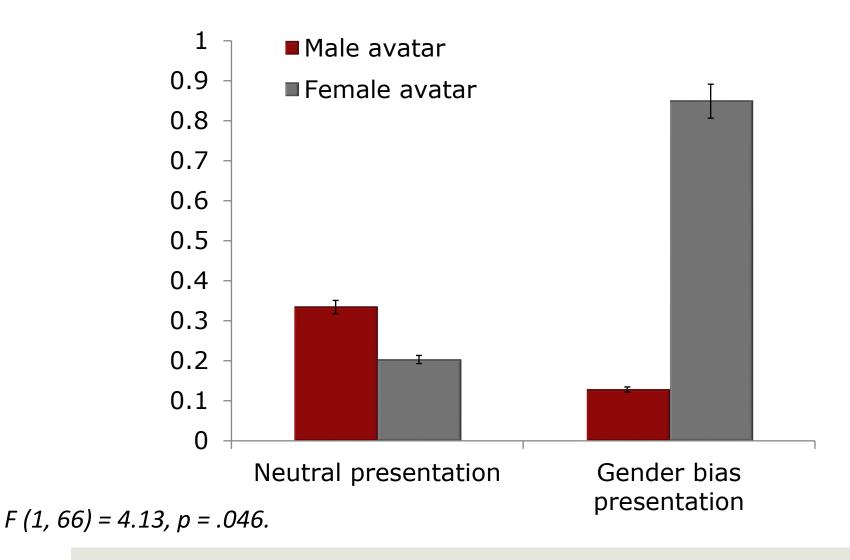


F(1, 68) = 4.10, p = .047.

Gender bias presentation



Inclusion Matters: Study 1 Electrodermal Activity (Arousal)





Research Question

What are the important factors in how a Gender Equality Initiative (GEI) is described or framed that promote more positive attitudes & support? (online study)

N = 116 (men and women), online

Factors:

- 1. Impact of GEI focus (GEI described as benefitting Women only or Women & Men) and/or
- 2. GEI leadership (GEI led by a female or male) on attitudes towards GEIs



Read a fictitious email describing a University GEI

Randomly assigned to 1 of 4 conditions:

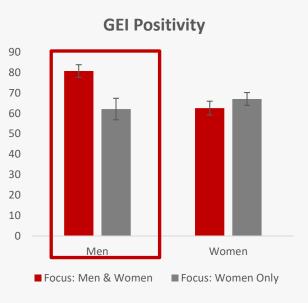
Female-led, benefitting Men & Women; Female-led, benefitting Women only; Male-led, benefitting Men & Women; Male-led, benefitting Women only

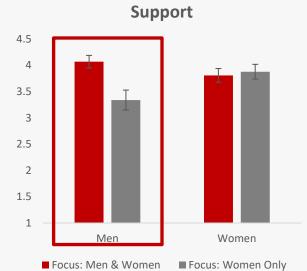
Completed
Self-report attitudinal questionnaires;
GEI attitudes Implicit Association Test
(IAT)

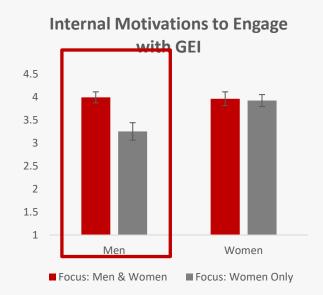


2 (GEI focus) x 2 (GEI leadership) x 2 (Participant Gender) ANOVA

Focus x Gender, p's < .03

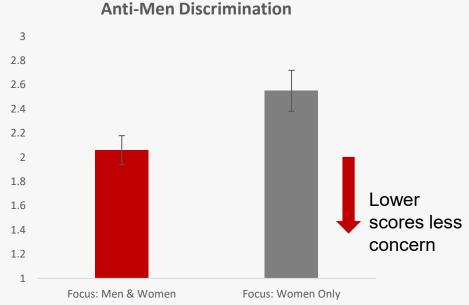






Men:

More positivity, support & internal motivation to engage with the GEI when benefitted men & women



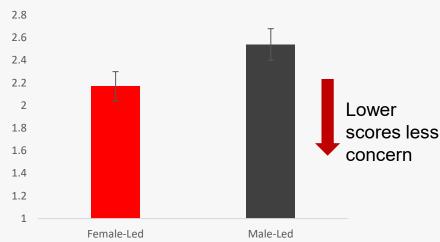
All Participants:

Less concerns of antiwomen discrimination when GEI led by a woman p = .02

All Participants:

Less concerns of antimen discrimination when GEI benefitted men & women p = .01

Anti-Women Discrimination



- More inclusive focus particularly effective at increasing men's positivity and support
 - Perhaps less threatening to men's social group²
- GEIs cannot rely solely on making a case for how they will benefit men³
- Female-led GEIs may be important for engaging women
 - Female leadership may feel more authentic given positive impact of female role models⁴
 - Concern about women taking on this work disproportionately -> this work should be clearly recognized and awarded for promotion and progression



N = 152 STEM staff (men and women), online

Factors:

- 1. GEI motivation (Internally motivated or Externally motivated GEI)
- GEI support (GEI supported by University or not) on attitudes towards GEIs



Read a fictitious email describing a University GEI

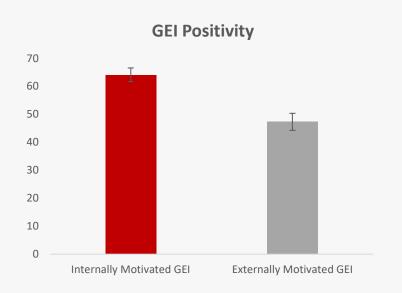
Randomly assigned to 1 of 4 conditions:

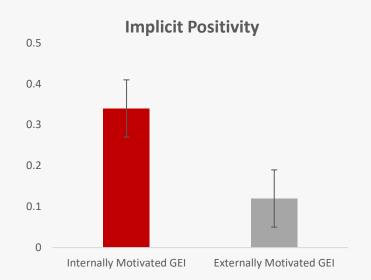
Internal Motivation, Management support; External Motivation, Management support; Internal Motivation, No Management support External Motivation, No Management support

Completed
Self-report attitudinal questionnaires;
GEI attitudes IAT



2 (GEI Motivation) x 2 (Management Support) x 2 (Participant Gender) ANOVA Motivation, $p's \le .02$



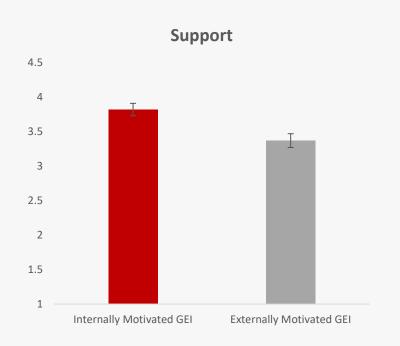


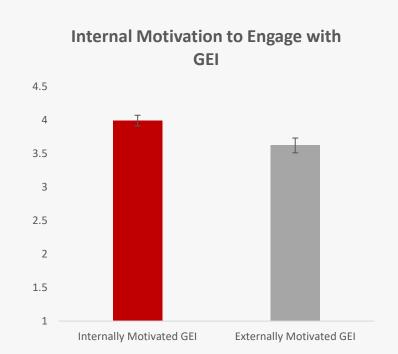
Internally Motivated GEIs:

More self-reported and implicit positivity towards GEI reported regardless of participant gender



Motivation, p's \leq .006



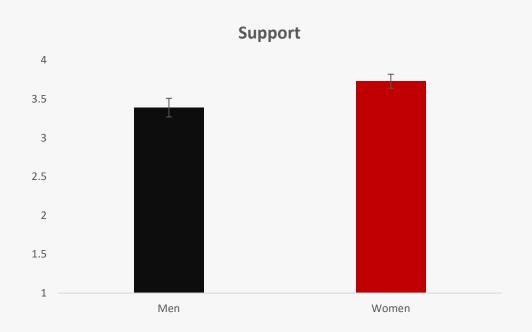


Internally Motivated GEIs:

More support and internal motivations to engage with the GEI



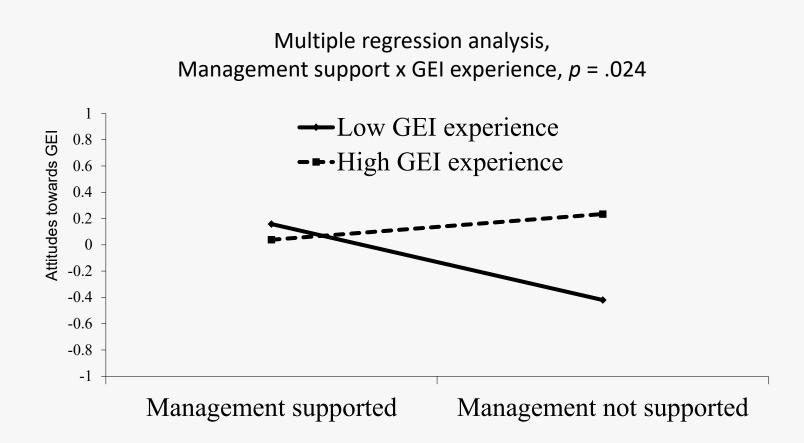




Gender:

Women were more supportive of GEIs regardless of condition





Management support:

Less GEI experience – More negative attitudes when GEI not supported by management More GEI experience – No relationship between management support and GEI attitudes



Inclusion Matters: Conclusions

- Internally motivated GEIs most effective at increasing positive GEI attitudes and support regardless of gender
- Women more supportive of GEIs than men in general
- Management support may be seen as proxy for effectiveness among those with less GEI experience

More information about the project

PROJECT FINDINGS & RESROUCES



Thank you! i.latu@qub.ac.uk