UNCONSCIOUS BIAS

Humans...am I right?



THIS WILL BE UNCOMFORTABLE

THIS WILL BE UNCOMFORTABLE ...AND THAT'S OK



IMPLICIT ASSOCIATION TEST

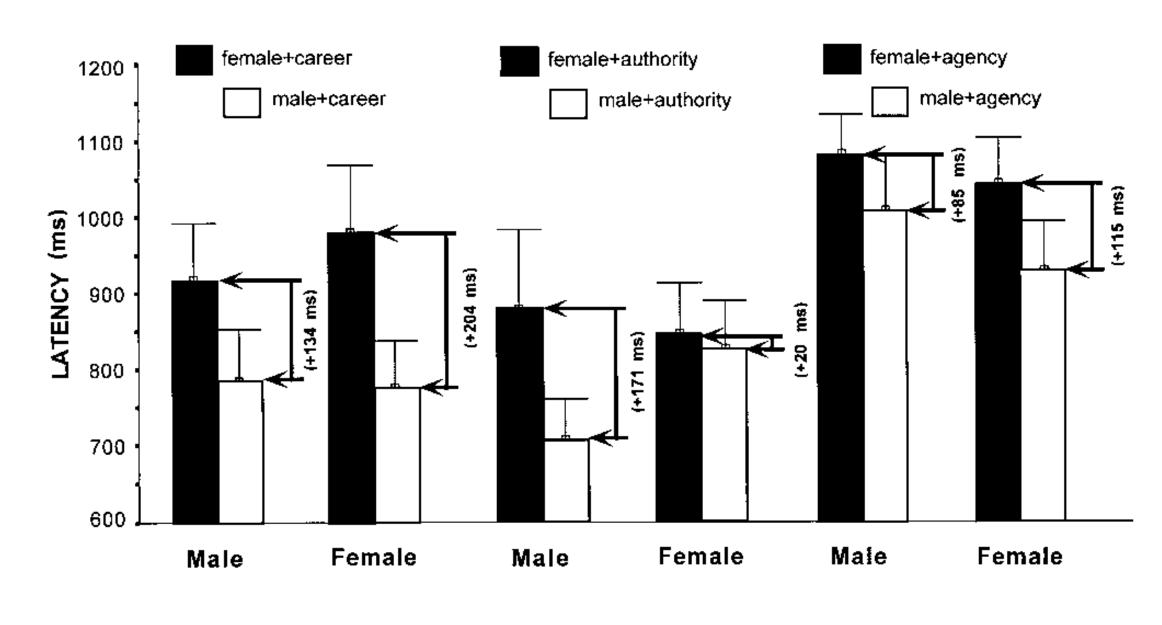
implicit.harvard.edu/implicit

then select

Gender-Career IAT

RESULTS

- We associate careers -> males, family -> females
- Faster response, higher accuracy higher for these associations
- Will vary to some extent each time you take the test
- Is not a measurement of your moral fiber as an individual

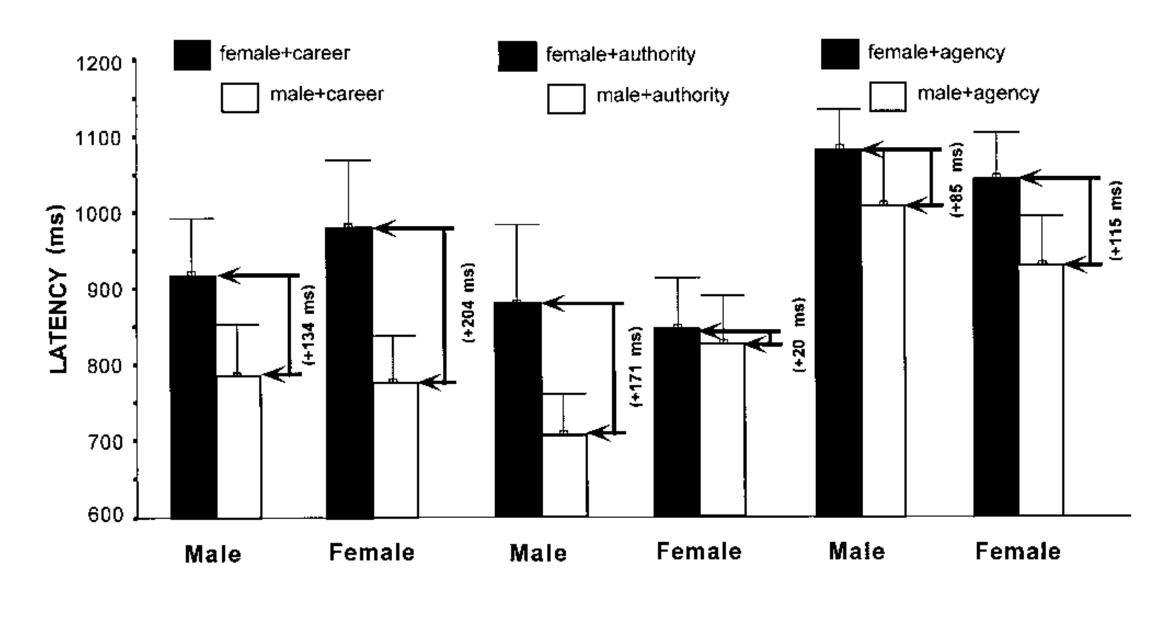


Participant Gender

HTTP://PSP.SAGEPUB.COM/CONTENT/26/11/1315

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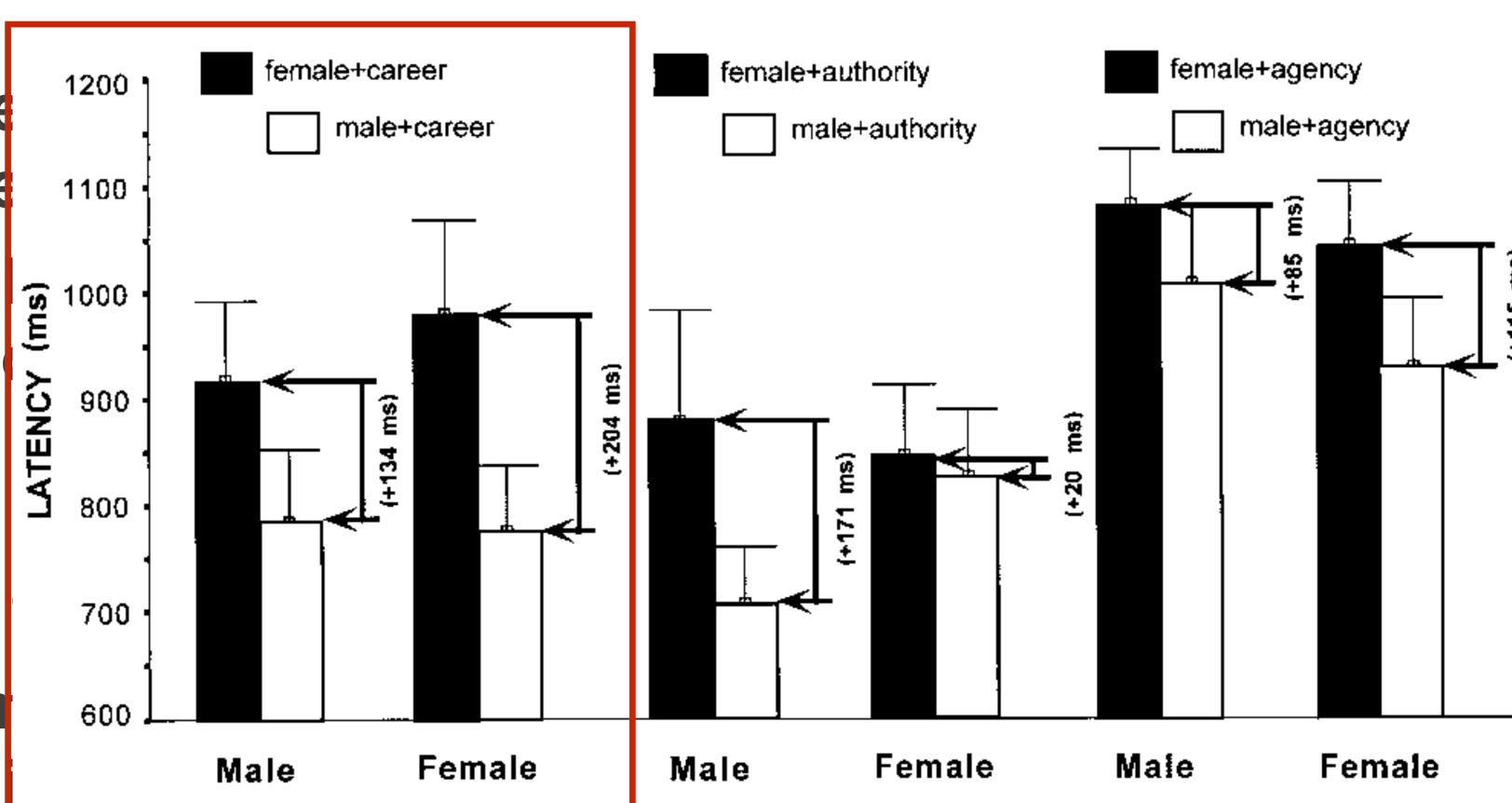


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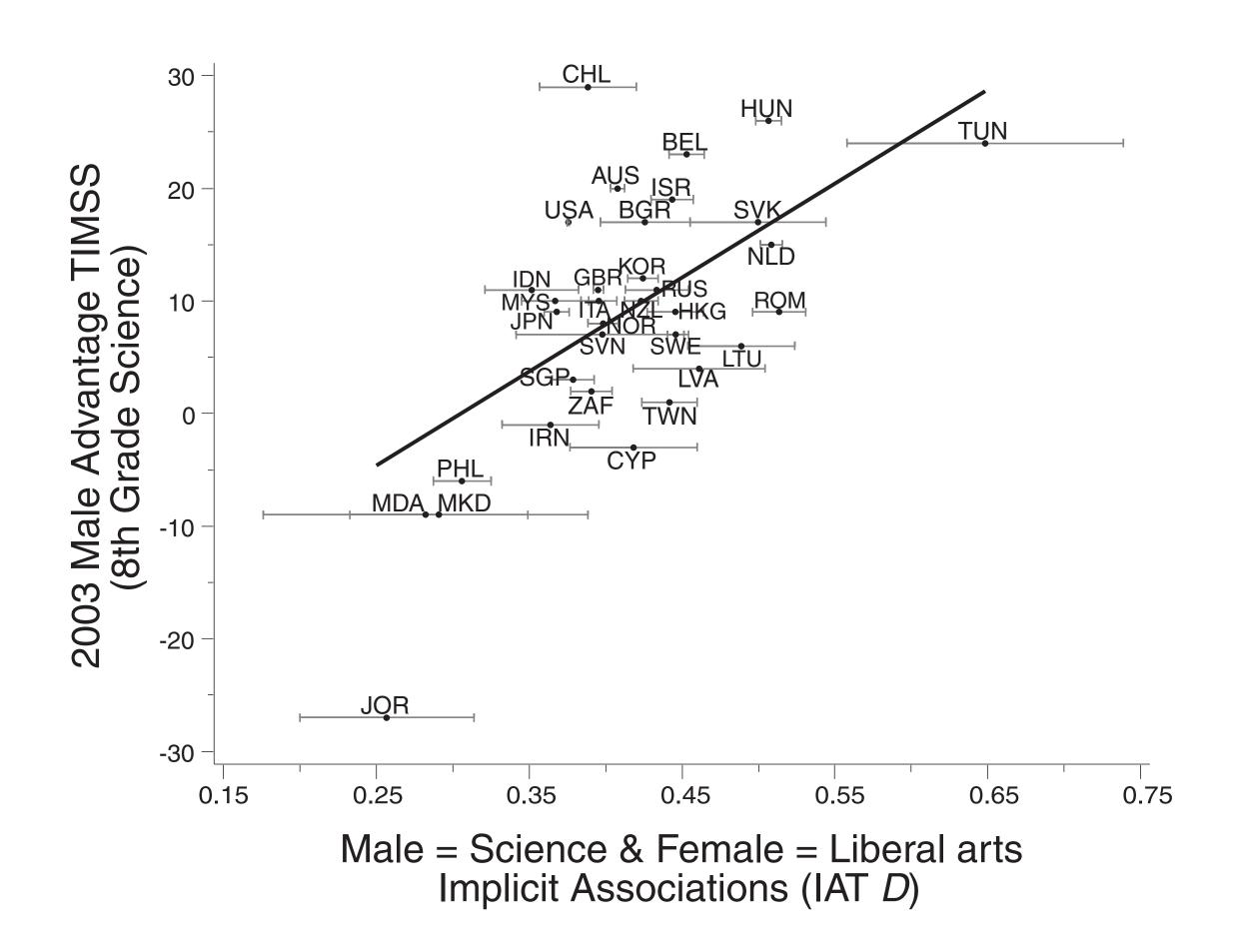


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HTTP://PSP.SAGEPUB.COM/CONTENT/26/11/1315

SO WHAT?

- Well the IAT is predictive of larger things
- For example: national science achievement vs gender



HTTP://WWW.PNAS.ORG/CONTENT/106/26/10593.FULL

DIVERSITY IS A HOT-BUTTON TOPIC IN THE TECH INDUSTRY RIGHT NOW

TEAM PERFORMANCE

- Diverse and inclusive workforces....
- 12% more "extra" (discretionary) effort
- 19% greater intent to stay
- 57% more collaboration among teams
- 42% greater team commitment

HTTPS://MANAGINGBIAS.FB.COM/

HTTP://WWW.DIVERSITYRESOURCES.STLRBC.ORG/WP-CONTENT/UPLOADS/2013/10/HRLC-CREATING_COMPETITIVE_ADVANTAGE_THROUGH_WORKFORCE_DIVERSITY.PDF

PERSONAL PERFORMANCE

- Firms with diverse leaders, employees report...
- 60% more likely to see their ideas developed
- 75% more likely to see their innovation implemented

HTTPS://MANAGINGBIAS.FB.COM/

HTTP://WWW.TALENTINNOVATION.ORG/PUBLICATION.CFM?PUBLICATION=1400

WHY FSA CARES ABOUT UNCONSCIOUS BIASES

- Affects your experience working with your peers
- Affects your experience in the tech industry full-time
- We care about you during and after the program!
- FSA norms include "No 'subtleisms"
 - Also no 'not-so-subtleisms'
 - Failure to observe norms:
 - probationary period
 - asked to withdraw

UNCONSCIOUS BIAS

- We have widely held, oversimplified ideas about particular types of people (stereotypes)
- We apply stereotypes automatically
- This affects decisions and actions unconsciously
- This can have (surprisingly) large effects on our culture and communities

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WHY?!?!?

- Survival: we have been honed to make fast decisions
- Too much info to process
- Intelligence involves intuition
- Intuition involves bias



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You!



- You!
- Me!





- You!
- Me!
- Rated E for EVERYONE







THIS IS THE UNCOMFORTABLE PART

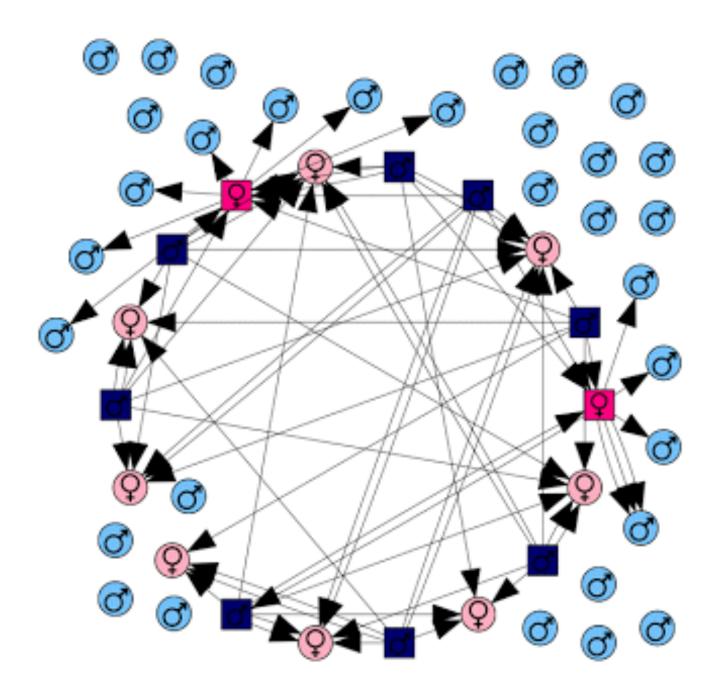
- Realizing that you have a bias can be uncomfortable
 - This probably goes against how you view yourself.
 - "I think I might have a bias"
 - "But that makes me a bad person"
 - "I know I'm a good person"
 - "That means I don't have a bias"
- Realizing that you have a bias is KEY to mitigating that bias

UNCONSCIOUS BIAS

- Not just about gender
 - race, ethnicity, income level, age, sexuality, disability status, occupation, favorite food... EVERYTHING
- Complex story
 - varies from culture to culture
 - varies from person to person
 - varies for one person in different circumstances
 - "intersectional"
- We'll mostly be talking about the effects on unconscious biases in the workplace



Petrie Multiplier

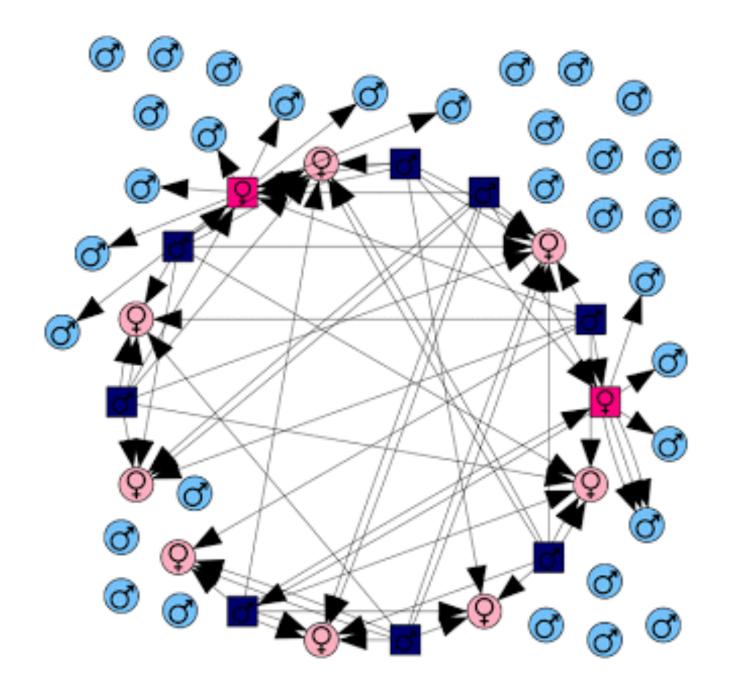


HTTP://BLOG.IAN.GENT/2013/10/THE-PETRIE-MULTIPLIER-WHY-ATTACK-ON.HTML



- 50 people: 40 men, 10 women
- Equal ratios making bigoted remarks to the opposite gender
- Simulate 70 bigoted interactions

Petrie Multiplier

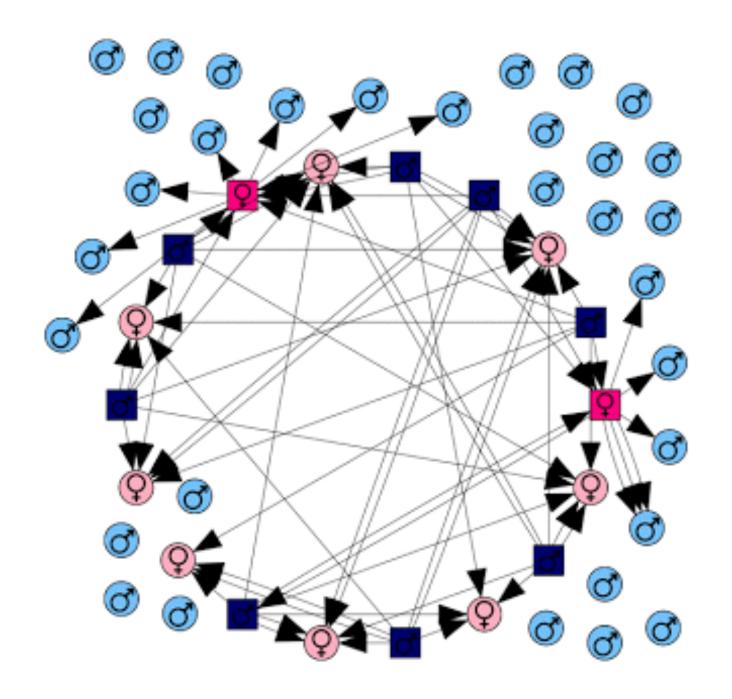


HTTP://BLOG.IAN.GENT/2013/10/THE-PETRIE-MULTIPLIER-WHY-ATTACK-ON.HTML



- 50 people: 40 men, 10 women
- Equal ratios making bigoted remarks to the opposite gender
- Simulate 70 bigoted interactions
- Men: 0.35 (ave); Women 5.6 (ave)
- Most men: 0 remarks
- Unluckiest man: 3 remarks
- Luckiest women: 4 remarks

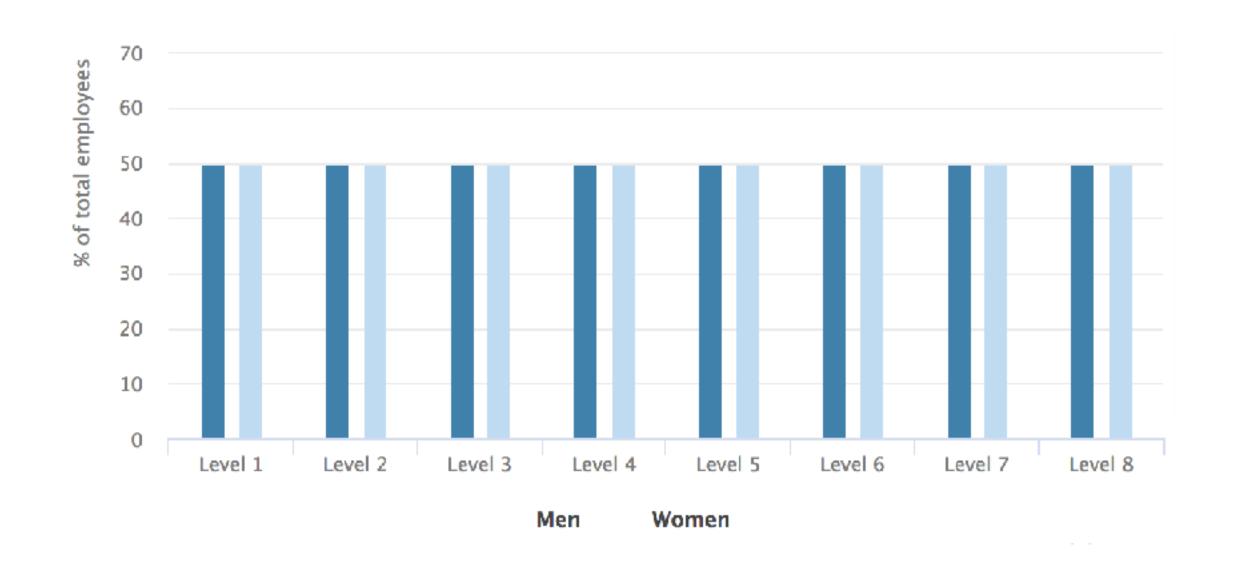
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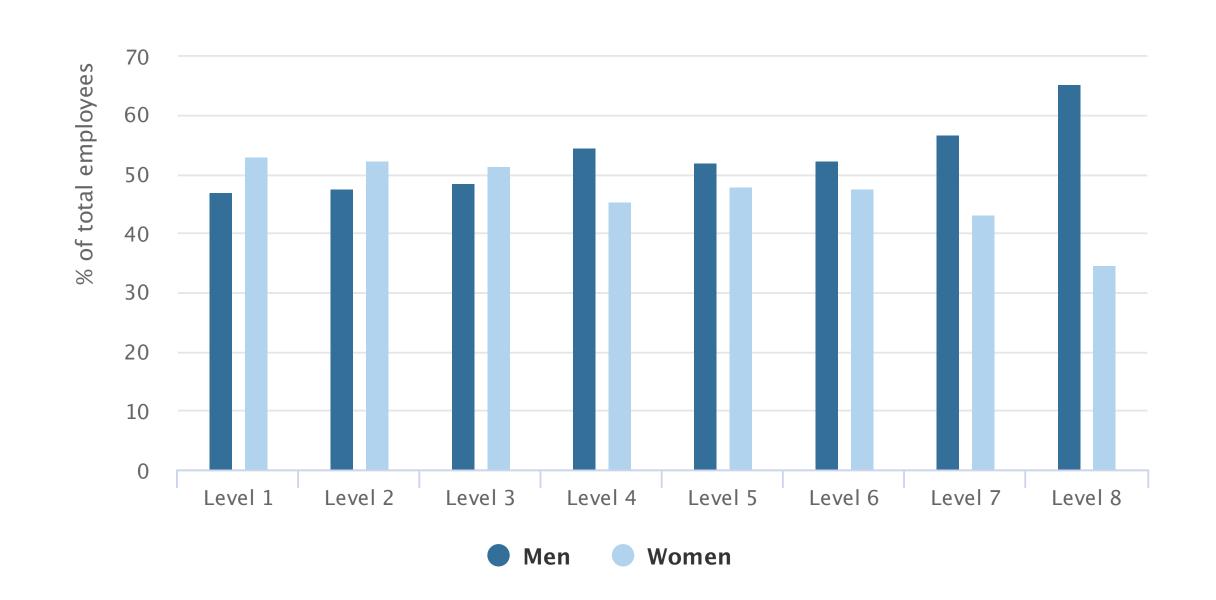
- 8-tiered company
- Simulate people leaving (15%) and others getting promoted
- Introduce 1% gender bias
- Repeat for 20 rounds



HTTP://DOESGENDERBIASMATTER.COM/



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- Top: 66% men, 34% women
- Two times as many men!

HTTP://DOESGENDERBIASMATTER.COM/



HTTP://PSYCH.WISC.EDU/BRAUN/281/INTELLIGENCE/LABELLINGEFFECTS.HTM

- Students test rats
- Rats labeled
 - "maze bright"
 - "maze dull"



HTTP://PSYCH.WISC.EDU/BRAUN/281/INTELLIGENCE/LABELLINGEFFECTS.HTM

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- Results: students unconsciously influenced the performance of rats in order to fit expected results
- Similar expectations with teachers and students

HTTP://PSYCH.WISC.EDU/BRAUN/281/INTELLIGENCE/LABELLINGEFFECTS.HTM



- Effects compound in unintuitive ways
- Aggregate bias in a group can lead to systemic oppression
- Unconscious bias is just one puzzle piece



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WHAT YOU CAN DO

- Become aware of biases within and around yourself
- Know that you can do things to mitigate the effect of those biases, whether you're a source, target, or bystander
- Take steps to mitigate the effects!

QUICK EXERCISE

• What's a skill that didn't come easily, but that you mastered through intentional practice?

BREAK

LEARNING TO ADDRESS UNCONSCIOUS BIASES IS A SKILL YOU CAN DEVELOP THROUGH PRACTICE

5 TYPES OF BIASES

- Performance bias: granting of implicit doubt or implicit endorsement based on unconscious bias
- Attribution bias: when credit is given unfairly based on unconscious bias
- Competence-likability Tradeoff: The more competent you are as a woman, the less likable you become (women, not men, face this tradeoff; other groups face different tradeoffs)
- Stereotype Threat: Self-fulfilling prophecy; targets of negative stereotypes reminded of them will underperform
- Microaggressions: Subtle, indirect, unintentional discrimination against a marginalized group
- Reminder that these are <u>unconscious</u>

CASE STUDY: PERFORMANCE BIAS

- Sent out 5000 different resumes, varying info
- Names made to seem "White-sounding" or "African-American-sounding"
 - "White names receive **50 percent more callbacks** for interview" (991)
- "A White name yields as many more callbacks as an additional eight years of experience on a resume" (992)

HTTP://WWW.JSTOR.ORG/STABLE/3592802

CASE STUDY: ATTRIBUTION BIAS

- People asked to give feedback about male and female team members working on a project
- Be specific, provide individualized details

Dependent variable	Individual feedback		Group feedback	
	Male target	Female target	Male target	Female target
Competence Influence Leadership	8.13 _a (0.76) 7.33 _a (0.84) 7.20 _a (1.08)	8.22 _a (0.89) 7.57 _a (0.92) 6.40 _a (2.26)	7.29 _a (1.59) 6.50 _b (1.15) 6.53 _a (1.73)	5.64 _b (2.01) 5.33 _c (0.84) 4.73 _b (1.22)

HTTPS://WWW.CSUEASTBAY.EDU/PROGRAMS/DSJ/FILES/PDFS/DSJGUIDE-JOURNAL-WOMEN-COMPETENCY.PDF

CASE STUDY: COMPETENCY-LIKABILITY TRADEOFF

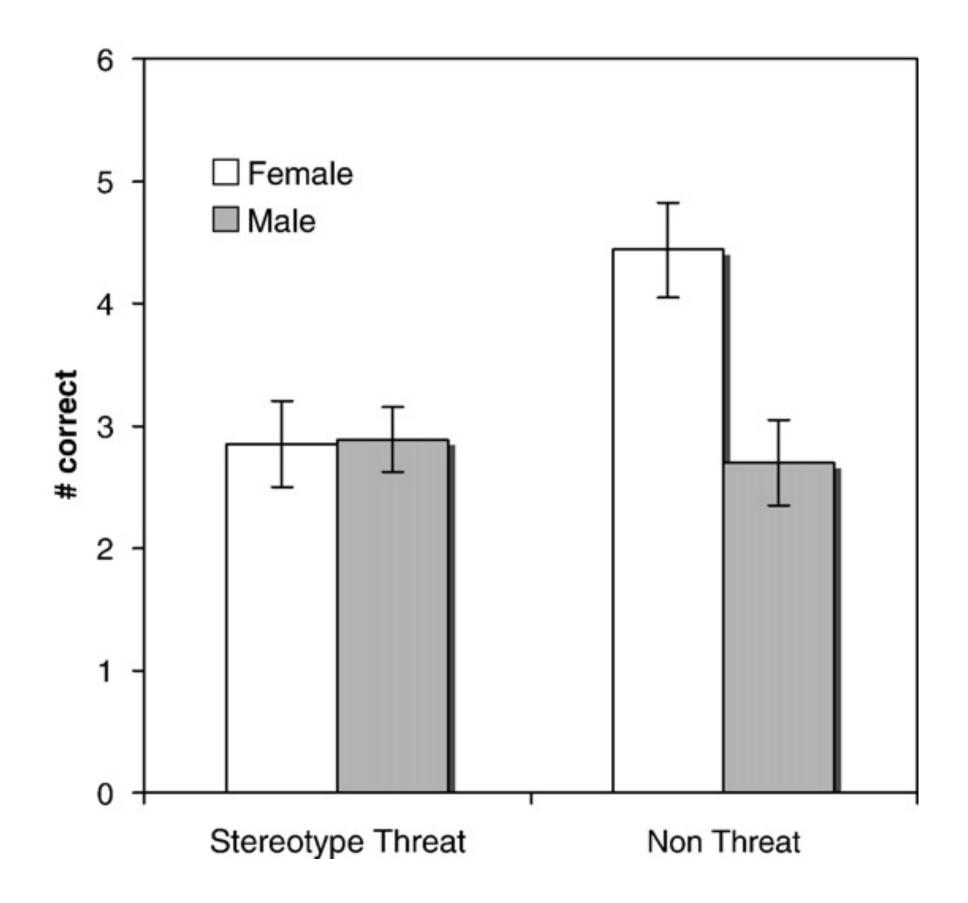
- Heidi Roizen's bio
- Howard Roizen's bio
- Same bio, people's reactions...

"Howard came across as a more appealing colleague. Heidi, on the other hand, was seen as selfish and not 'the type of person you would want to hire or work for.' The same data with a single difference—gender—created vastly different impressions."

HTTPS://WWW.THEATLANTIC.COM/SEXES/ARCHIVE/2013/03/ARE-SUCCESSFUL-WOMEN-REALLY-LESS-LIKABLE-THAN-SUCCESSFUL-MEN/273926/

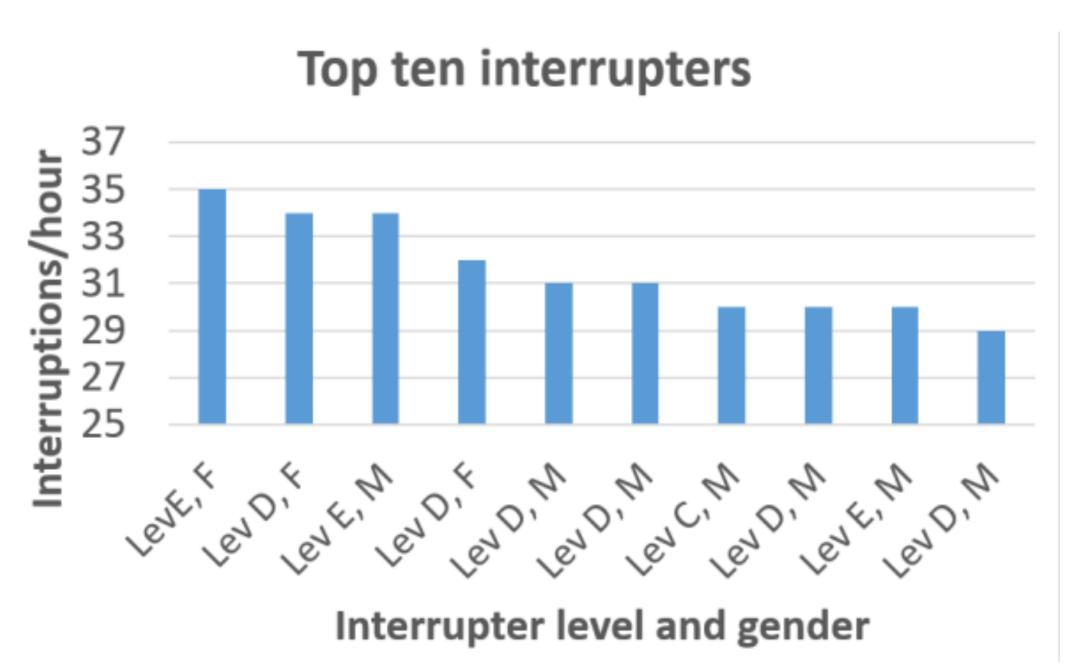
CASE STUDY: STEREOTYPE THREAT

- Students taking a math test
- Half being told no difference in gender performance previously
- Women in the other condition underperformed



CASE STUDY: MICRO AGGRESSIONS

- Men interrupt twice as often as women
- Men interrupt women 3x more than interrupting men
- Women interrupt each other more frequently than men
 - 87% of women interruptions were targeted at women
- Senior speakers interrupt more



HTTP://WWW.SLATE.COM/ARTICLES/PODCASTS/LEXICON_VALLEY/2017/07/
JOHN MCWHORTER ON WHY LANGUAGES HAVE CONTRACTIONS.HTML

IMPORTANT TERMS

- Source: person who says or does something that's underpinned by an unconscious bias
- Target: person who is on the receiving end of some behavior that's influenced by an unconscious bias
- Bystander: person who observes a biased interaction

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- If you know you have specific issues, take steps to mitigate them
 - e.g. If you know you interrupt be particular about who is speaking (passing an object can help with this)

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- Look for cultures that are receptive to you caring about this

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SUMMARY

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- Bias impacts perceptions about competence and ability
- Unchecked bias can result in less diversity in tech, engineering and management roles
 - (more barriers/impediments for non-dominant groups)
- Imposter Syndrome & Stereotype Threat can have a big affect on individuals' experiences

OPPORTUNITY

- Personal and team performance increases; competitive advantage
- Being conscientious means more doors open, not less (networking)
- Source: getting called out is uncomfortable, but is also an opportunity to improve
- Target: awareness can help you navigate the professional world more effectively
- Bystander: hone your communication skills, demonstrate allyship

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Source:

- Organizational level:
 - determine hiring and performance evaluation criteria ahead of time
 - require specific attribution in evaluation
 - remove identifying information when possible (name, etc)
- Interpersonal level: be receptive to critical feedback, question your actions / consider unconscious bias, take steps to mitigate specific biases

Target:

- Be specific when describing skills/accomplishments
- Self affirmation celebrate your successes and be proud!
- Find an organization/community that supports you

Bystander

- Practice the "constructive call-out" (consider 1-1s, the "you've got something in your teeth" approach)
- Amplify others' contributions
- Contribute to humanizing people when talking about them

NEXT STEPS

- FSA norms include "no 'subtleisms"
 - norm violations result in
 - probationary period
 - asked to withdraw
- Instructors and Student Experience Specialists would love to talk about this with you 1-1 — please feel free to reach out!

NEXT STEPS

- Pick a way in which you you are going to starting working to mitigate an unconscious bias:
 - "I am going to focus on not interrupting during pairing or group discussions"
 - "I am going to focus on amplifying/properly giving credit for my cohort mates' contributions"
- Let's keep talking about this!

FURTHER RESOURCES

- Outstanding (and quick) video on reframing discussions about racism the way we discuss dental hygiene
- A simulation of being outnumbered, and how -isms can compound in a group setting with skewed representation (plus a good follow-up)
- A simulation of gender bias in a tiered organization
- A well-research answer to the question: ok so if I am subject to stereotype threat, how do I escape that self-fulfilling prophecy
- A great video about seeing people as complex individuals
- Really solid overview of bias, from Google's people operations department
- Really solid overview of bias, from Facebook (with resources here and here)
- Intelligent essay about keeping our goals really in mind, and not letting our social goals become so narrow they're meaningless
- Candid essay about privilege in the tech world, coming from an Asian man
- Candid essay about being a minority in a mostly homogeneous workplace, coming from a black woman
- A short piece about men interrupting women, and another well-written piece about that
- An online article about Robert Rosenthal's work on the "Pygmalion Effect" and the impact of biases in schools and other settings
- Another article about Robert Rosenthal's studies in San Francisco schools in the 1960s