Counterfeiting Gender Diversity in Technology Organizations:

Cueing Identity Safety or Identity Threat?

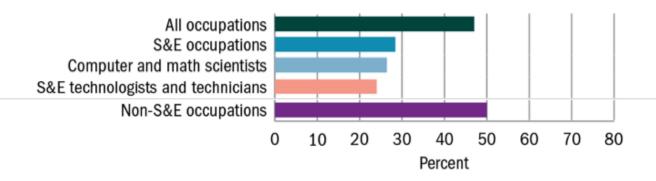


Katie Kroeper, Heidi Williams, & Mary Murphy

OSU Weary Symposium on Diversity and Social Identity June 17, 2019

Technology lacks Gender Diversity

Employed women scientists and engineers, as a percentage of selected occupations: 2015



Women, Minorities, and Persons with Disabilities in Science and Engineering: 2017

- Women are underrepresented in STEM fields
- And it's particularly a problem in tech/computer science

How Can We Increase Gender Diversity?



With a global community of over 2 billion people on Facebook, the case for a more diverse and inclusive company is clear. Diversity helps us build better products, make better decisions and better serve our community.



"Building an open, inclusive environment is core to who we are, and the right thing to do," added Ari Balogh, the company's vice-president of engineering, "'Nuff said."



Humanity is plural, not singular. The best way the world works is everybody in. Nobody out.



Diversity + Inclusion = Success

In over 20 years of committed diversity and inclusion efforts, we've learned that diversity is not a finite goal; it is a journey that requires constant self-assessment and recommitment.

How Can We Increase Gender Diversity?







...portraying diversity is a potent method of attracting diversity...

Doesn't this pose a dilemma for non-diverse places?













This Picture Featuring 15 Tech Men And 2 Women Looked Doctored. The Women Were Photoshopped In.

"We meant no harm or had any malicious intent in doing this and we are sorry."



Ryan MacBuzzFeed News Reporter

Posted on June 12, 2019, at 1:53 p.m. ET



What is counterfeit diversity?

...it's projecting an image of diversity that is inconsistent with reality







Is counterfeit diversity a cue to *identity safety* or *identity threat*?

- Underrepresented group members are vigilant to cues signaling whether their group will be valued and respected
- How might counterfeit diversity be construed by female applicants?
 - ...as an identity safety cue—that women will be welcomed and treated with respect
 - ...as an identity threat cue—that counterfeit diversity is a disingenuous mask that is hiding plain old non-diversity

Research Overview

- Three experiments examined links between construal, threat, and organizational interest
 - Study 1: Counterfeit vs. Authentically High Diversity
 - Study 2: Counterfeit vs. Authentically Low Diversity
 - Study 3: Counterfeit vs. A Diversity Commitment

General Method



Two Factor Design

- Diversity: Counterfeit Diversity (vs. other diversity portrayals)
- **Gender**: Women, Men

• Procedure:

- Ps viewed a tech company's website, advertised as gender diverse or nondiverse
- Ps learned on actual on-the-ground diversity information: gender diverse or non-diverse (or were given no diversity info at all)
- Ps answered questions about their beliefs about the company, anticipated threat, and attraction

Measures

- Sincerity Beliefs (2 items, $\alpha = .94$)
- Identity Threat Concerns (5 items, $\alpha = .96$)
- Interest in the Company (1 item)

On-the-Ground

Diverse

Non-Diverse

No **Information**

Website Diverse

Website Non-Diverse **Authentic Diversity**

Counterfeit Diversity

No-Info Control

Advertised

Diverse Website (1:1 Men to Women)

HARRISON TECHNOLOGIES Inventing the technologies that the world loves.

WELCOME o PRODUCTS o OUR PEOPLE o MEDIA o CAREERS o CONTACT



At Harrison Technologies, we believe that embracing our people enriches our company culture.

We feel that focusing on our people creates a more productive, exciting, and innovative work environment. Such an environment helps everyone.

A focus on our people is woven throughout all of our organizational practices. As soon as you walk through our doors, you'll appreciate the strength that we derive from our people.





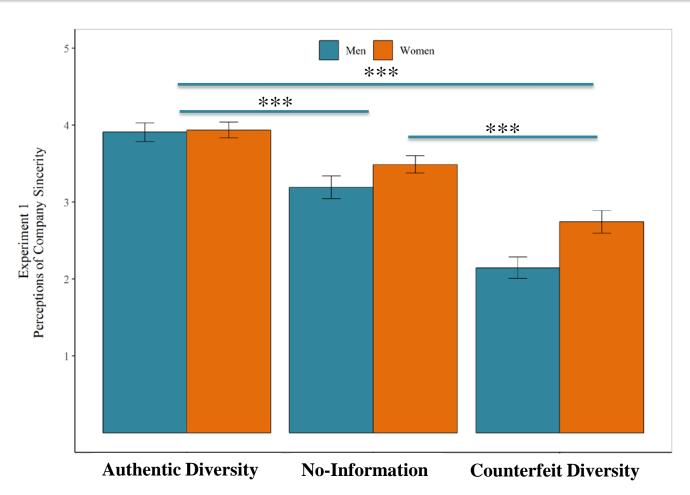
Actually Diverse

When you actually arrive on site, you look around and notice that there are many women and men working at Harrison Technologies. In fact, it looks like the gender ratio of men to women is about 1:1, meaning about 50% of all employees at the company are women.

Actually Non-Diverse

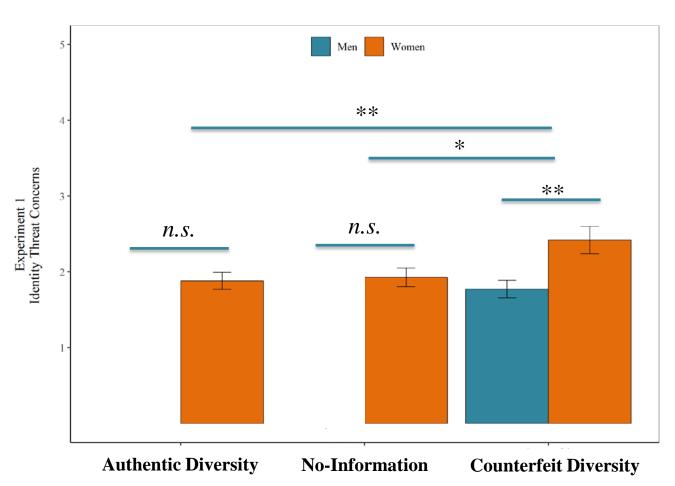
When you actually arrive on site, you look around and notice that there are mostly men and very few women working at Harrison Technologies. In fact, it looks like the gender ratio of men to women is about 3:1, meaning only about 25% of all employees at the company are women.

Study 1 Sincerity Beliefs



Main Effect of Diversity: $F(2, 300) = 63.94, p < .001, \eta_p^2 = .30$

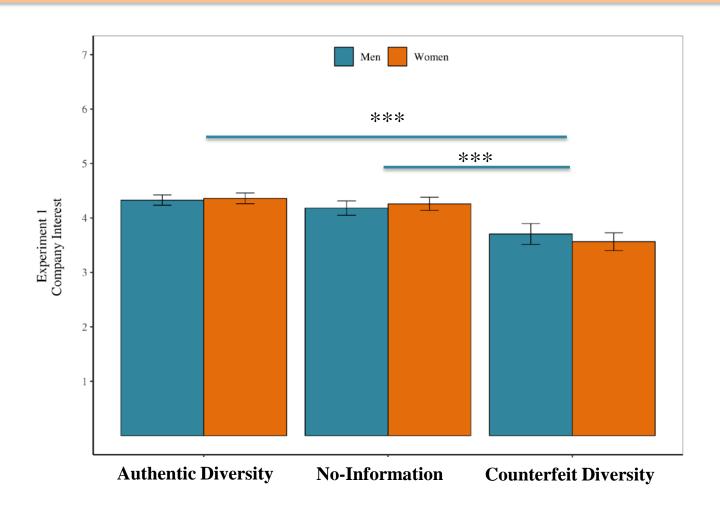
Study 1 **Identity Threat Concerns**



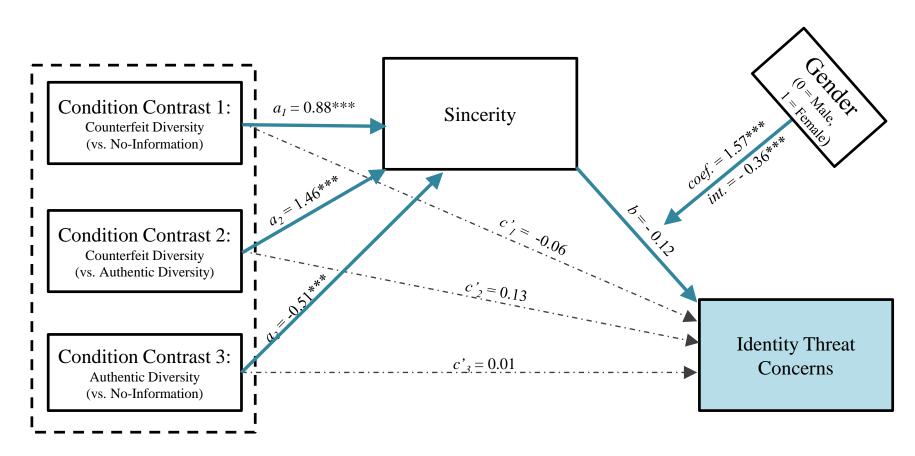
Main Effect of Diversity: F(2, 300) = 2.66, p = .07, $\eta_p^2 = .02$ **Main Effect of Gender:** F(1, 300) = 9.82, p = .002, $\eta_p^2 = .03$ **Interaction:** F(2, 300) = 2.25, p = .11, $\eta_p^2 = .02$

* p < .05, ** p < .01, *** p < .001

Study 1 Interest in the Company

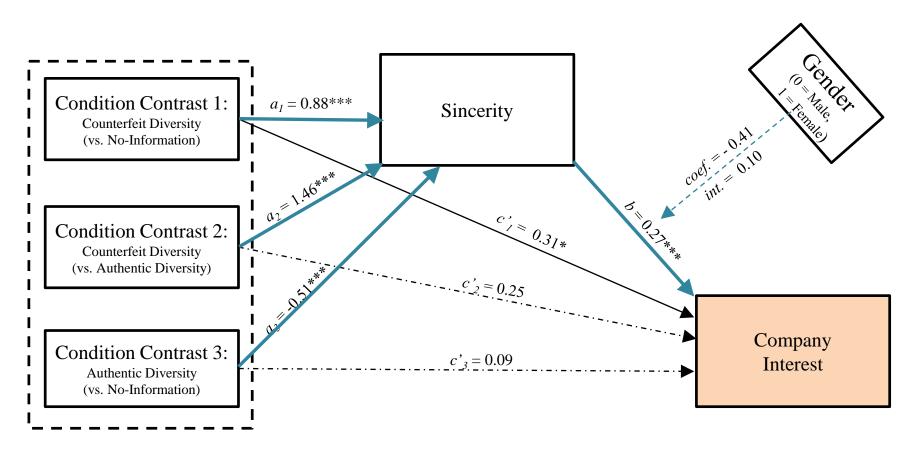


Study 1 Sincerity to Identity Threat Concerns



$$N = 306. * p < .05, ** p < .01, ***p < .001$$

Study 1 Sincerity to Interest in the Company



Study 1 Summary

- Counterfeit Diversity (vs. authentic diversity)
 - believed company was <u>less</u> sincere
 - ...women anticipated <u>more</u> identity threat concerns
 - ...reported <u>less</u> interest in the company
- But how is **Counterfeiting Diversity** viewed compared to being **Authentically Non-Diverse**?

On-the-Ground

Actually Diverse

Actually Non-Diverse No <u>Information</u>

Website Diverse

Website Non-Diverse Authentic Diversity

Counterfeit Diversity

Authentic Non-Diversity

Advertised

Diverse Website

WELCOME TO HARRISON TECHNOLOGIES



Technologies is a globally competitive technologies located in sunny Palo Alto, California. We invent and refine easy-to-use technologies for 187 million daily active users designed to enhance efficiency and maximize productivity.

interested in a career at Harrison Technologies? we are now hiring! Learn more about current career unities here at Hr.





HARRISON TECHNOLOGIES



OUR PEOPLE

Harrison Technologies, we believe that embrac people enriches our company culture.



We feel that focusing on our people creates a more productive, exciting, and innovative work environment. Such an environment helps everyone. A focus on our people is woven throughout all of our organizational practices. As soon as you walk through our doors, you'll appreciate the strength that we derive from our







Non-Diverse Website

HARRISON TECHNOLOGIES



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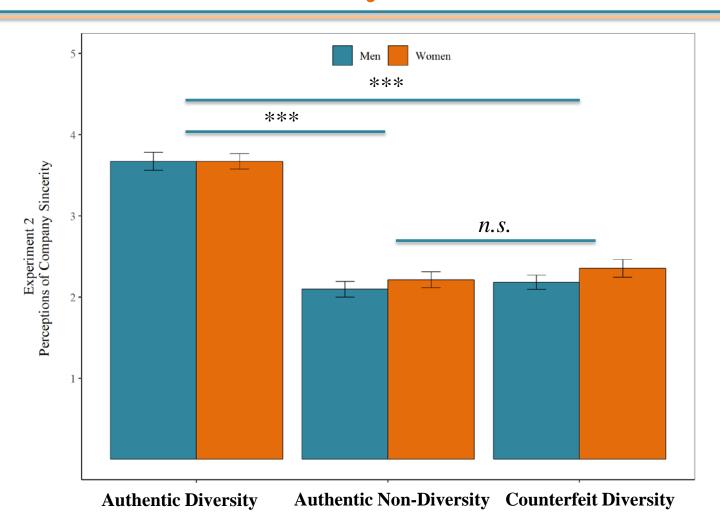
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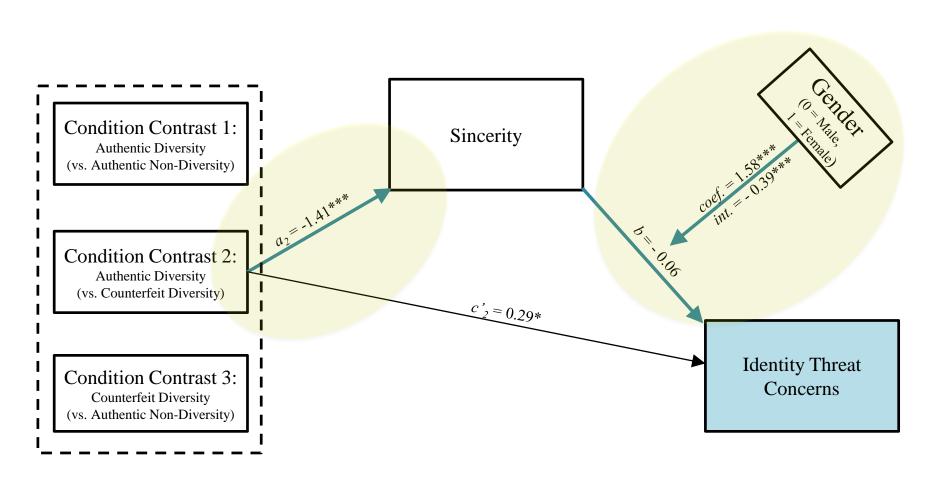
Study 2 Sincerity Beliefs



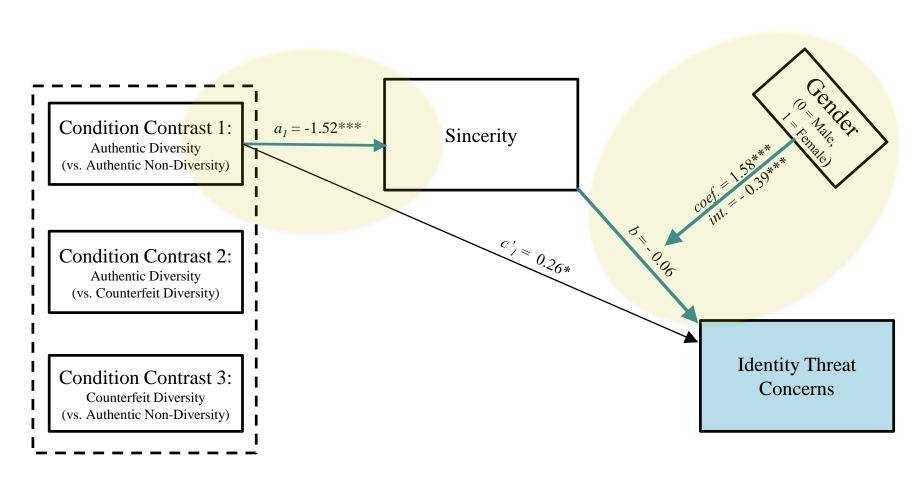
* p < .05, ** p < .01, *** p < .001

Main Effect of Diversity: $F(2, 396) = 145.09, p < .001, \eta_p^2 = .42$

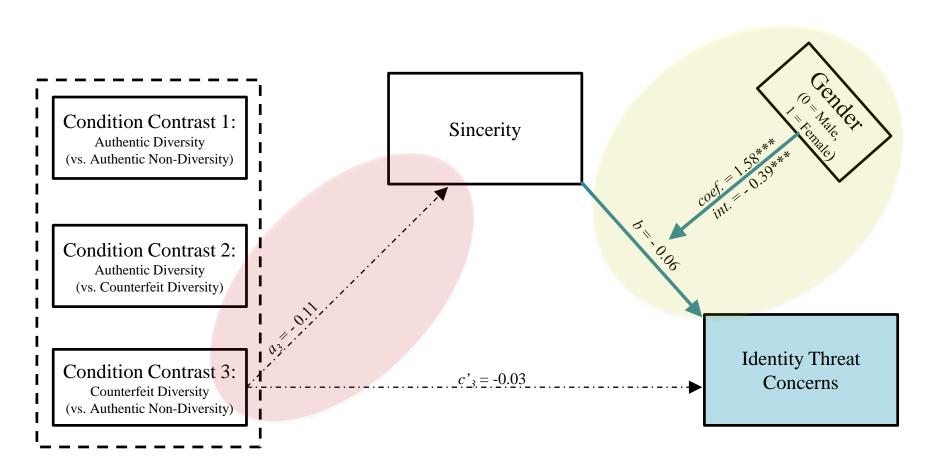
Study 2 Sincerity to Identity Threat Concerns



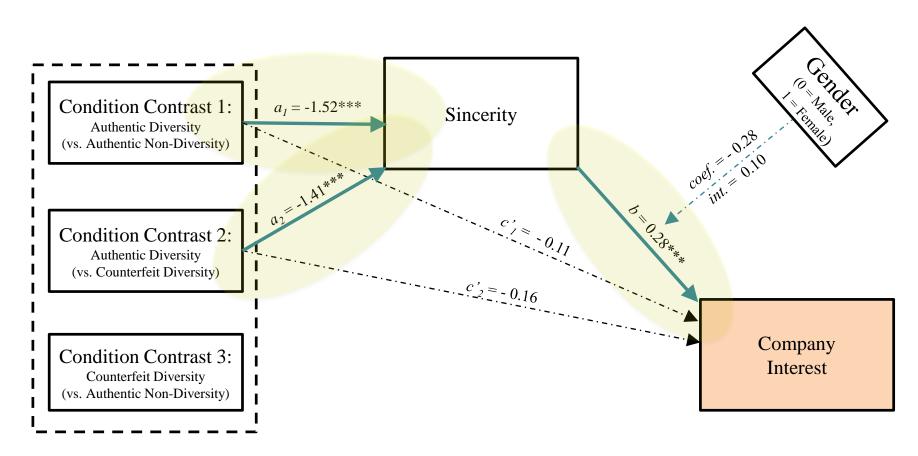
Study 2 Sincerity to Identity Threat Concerns



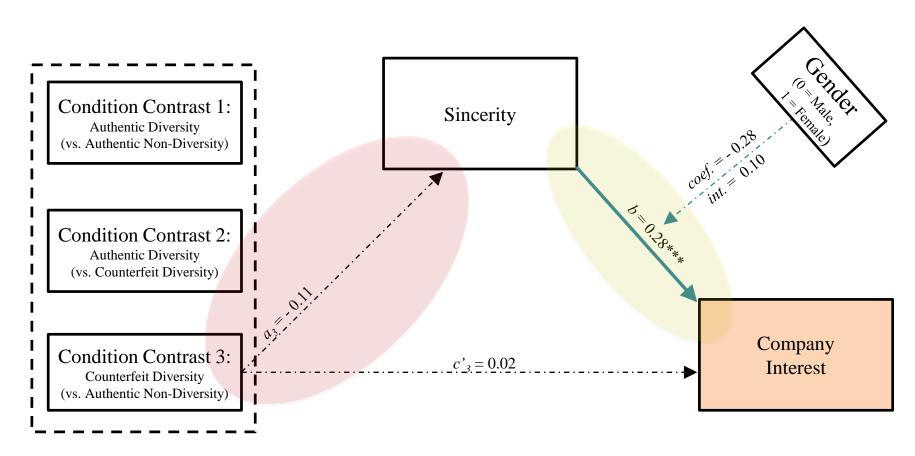
Study 2 Sincerity to Identity Threat Concerns



Study 2 Sincerity to Interest in the Company



Study 2 Sincerity to Interest in the Company



$$N = 402. * p < .05, ** p < .01, ***p < .001$$

Study 2 Summary

- Counterfeit Diversity (vs Authentic Diversity)...
 - ...perceived company as <u>less</u> sincere
 - ...women anticipated having more identity threat concerns
 - ...reported <u>less</u> interest in the company
- Counterfeiting Diversity did not provide any more identity safety than Authentic Non-Diversity.
 - No evidence of a meaningful difference.

On-the-Ground

Actually Diverse

Actually Non-Diverse

Counterfeit

Diversity

Actually Non-Diverse, but Committed to Diversity

Website **Diverse**

Website Non-Diverse Authentic Diversity

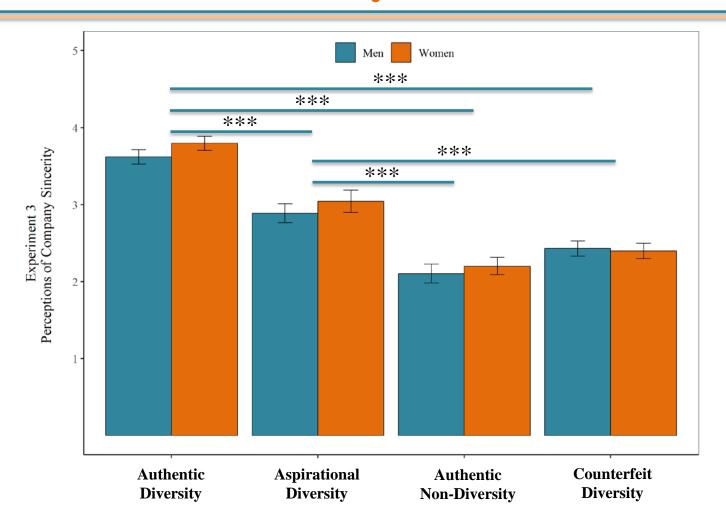
> Authentic Non-Diversity

Aspirational Diversity

Advertised

"Diversity is critical to the success of our company—it helps us build better products, make better decisions, and better serve our community. Since establishing Harrison Technologies, we've made some progress toward increasing the number of women employed here. However, our current numbers don't reflect our company's values. We aren't yet where we'd like to be. Now and going forward, we will work hard to recruit and retain more women. In fact, we have several programs in place to help move us towards our goals. We are committed to making Harrison Technologies a diverse and inclusive company, where all employees feel that they can thrive and succeed."

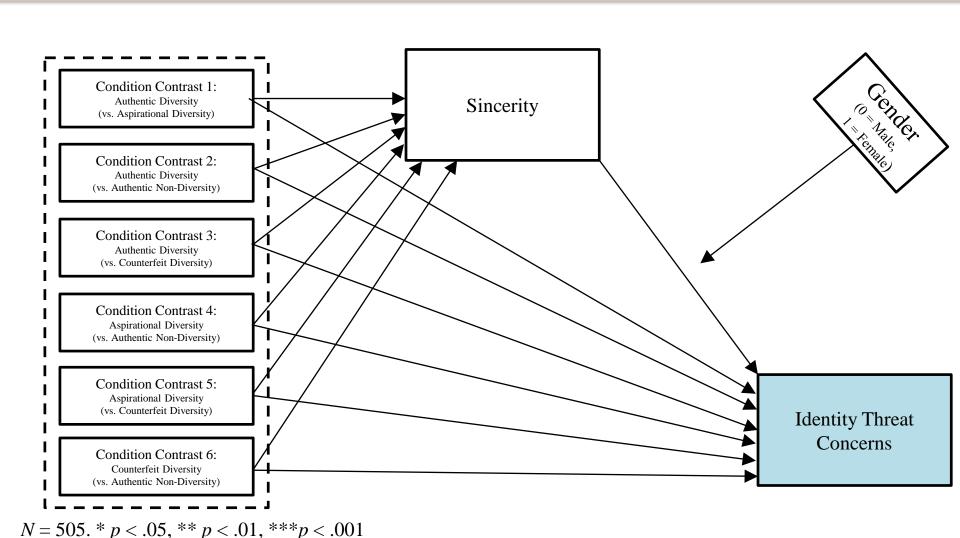
Study 3 Sincerity Beliefs



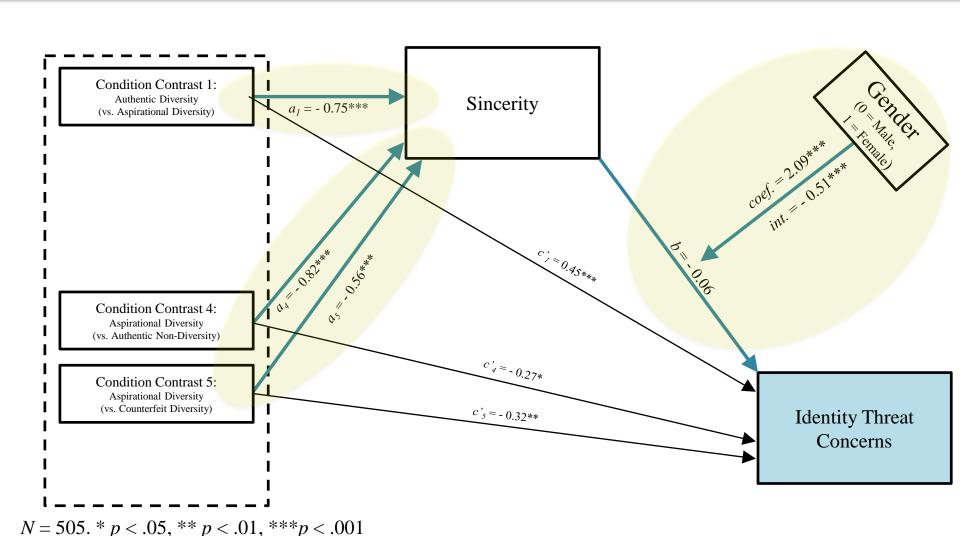
* p < .05, ** p < .01, *** p < .001

Main Effect of Diversity: F(3, 497) = 78.97, p < .001, $\eta_p^2 = .32$

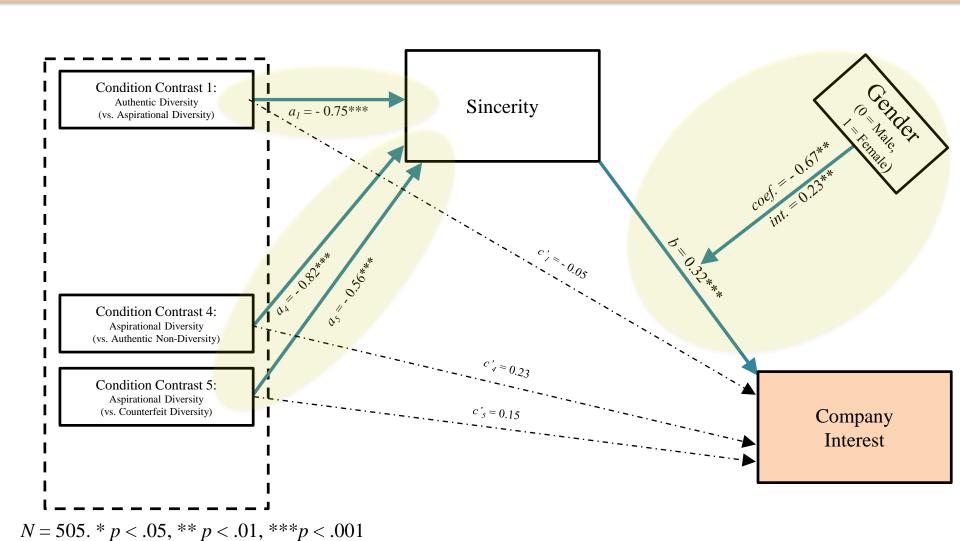
Study 3 Sincerity to Identity Threat Concerns



Study 3 Sincerity to Identity Threat Concerns



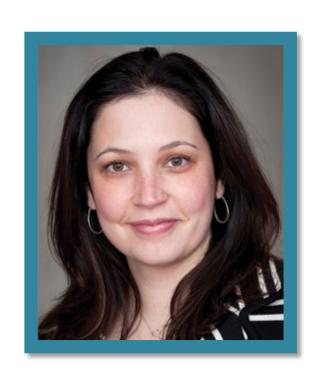
Study 3 Sincerity to Interest in the Company



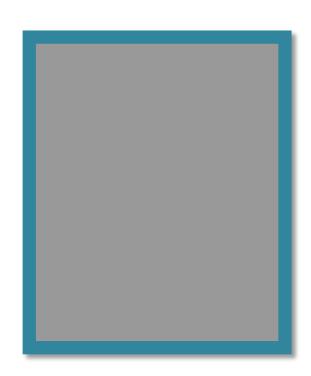
General Summary

- People exposed to Counterfeit Diversity (vs Authentic Diversity)...
 - ...perceived company as <u>less</u> sincere
 - ...women anticipated having more identity threat concerns
 - ...reported <u>less</u> interest in the company
- In Study 3, we found some evidence that expressing a **diversity commitment**, via increasing **perceived sincerity**, can alleviate identity threat and increase interest.
- Stating aspirational diversity may be one alternative to counterfeiting diversity that communicates identity safety (vs. threat) and maintains people's interest.

Collaborators & Funding







And thank **you** for your time, attention, and feedback!

Extra slides...just in case ©

Study 1

Participants

- MTurk Sample (N = 306)
- $M_{age} = 36.7$ years
- 52.6% female
- 76.5% White

Study 2

Participants

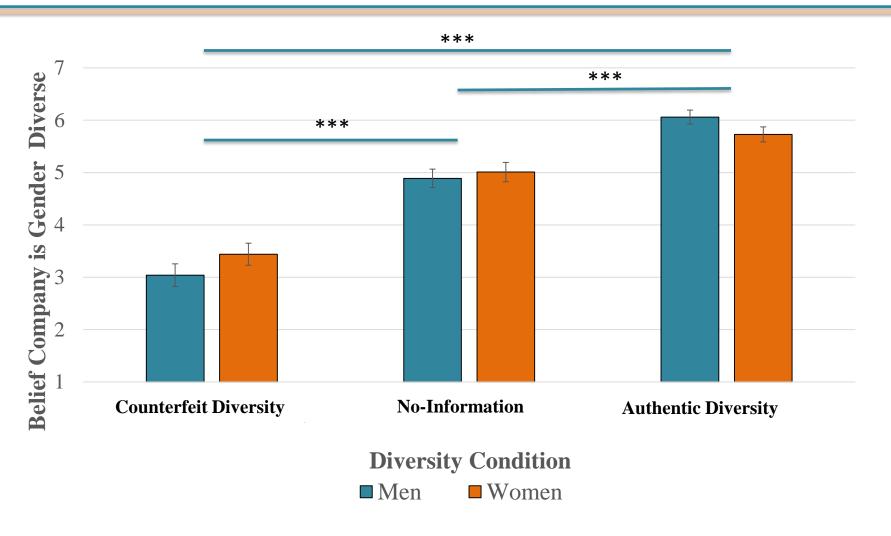
- Prolific Sample (N = 402)
- $M_{age} = 33.0 \text{ years}$
- 51.2% female
- 69.1% White

Study 3

Participants

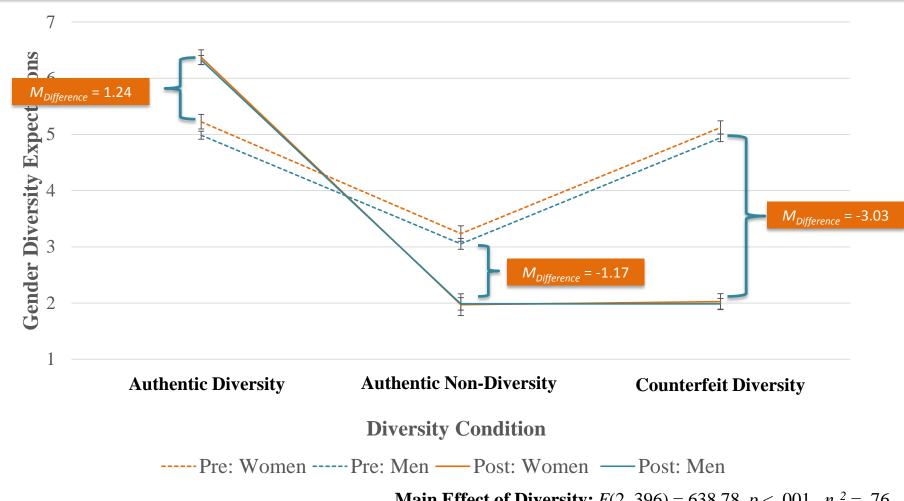
- Prolific Sample (N = 505)
- $M_{age} = 34.73 \text{ years}$
- 50.7% female
- 76.6% White

Study 1: Results Manipulation Check



Main Effect of Diversity: $F(2, 300) = 113.38, p < .001, \eta_p^2 = .43$

Study 2: Results Manipulation Check

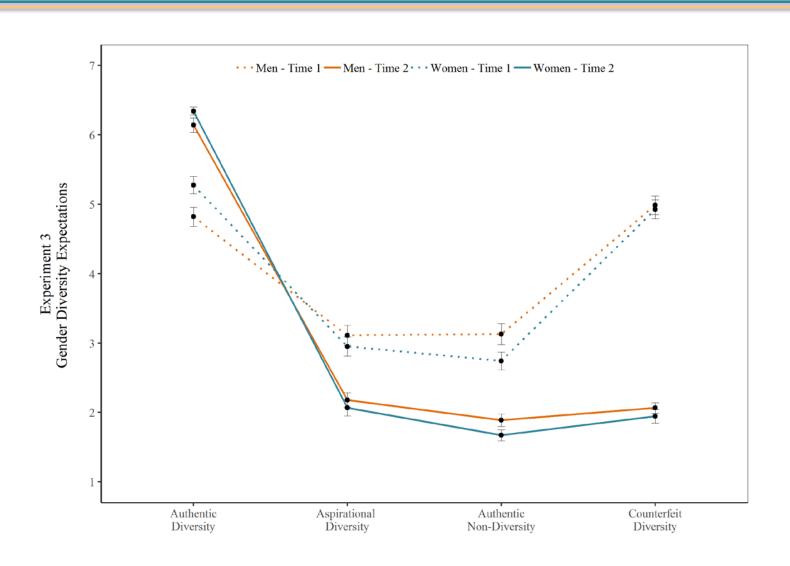


Main Effect of Diversity: F(2, 396) = 638.78, p < .001, $\eta_p^2 = .76$

Main Effect of Time: $F(1, 396) = 268.01, p < .001, \eta_p^2 = .40$

Diversity × **Time Interaction:** $F(2, 396) = 450.84, p < .001, \eta_p^2 = .70$

Study 3: Results Manipulation Check



This happens at a lot of colleges



EDUCATION

A Campus More Colorful Than Reality: Beware That College Brochure

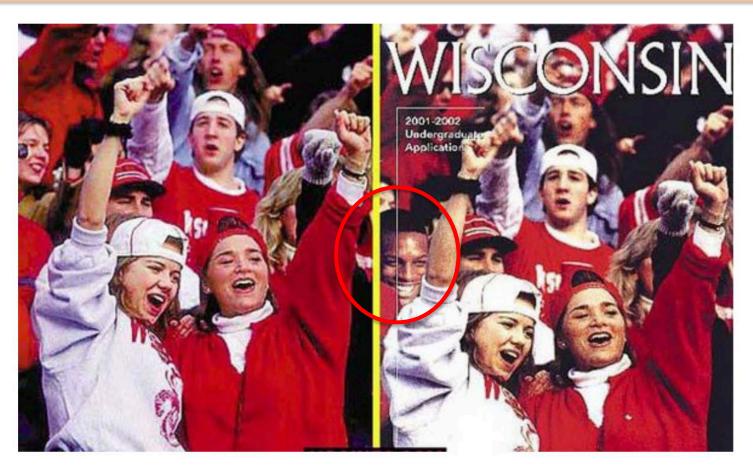
December 29, 2013 · 10:31 AM ET Heard on Weekend Edition Sunday

DEENA PRICHEP

Dr. Tim Pippert and colleagues found that, overall, the whiter the school, the more diversity depicted in the brochures, especially for certain groups.

"When we looked at African-Americans in those schools that were predominantly white, the actual percentage in those campuses was only about 5 percent of the student body," he says. "They were photographed at 14.5 percent."

This happens at a lot of colleges



On the **left**, is the raw photograph

On the **right**, is the photo in UW booklet

Can you spot the difference?

This happens at a lot of colleges



Notice any problems with this photo?

The Black woman is photo-shopped into the photo. Look at the brick background fading away and how the sunlight on the White women isn't on the Black woman.

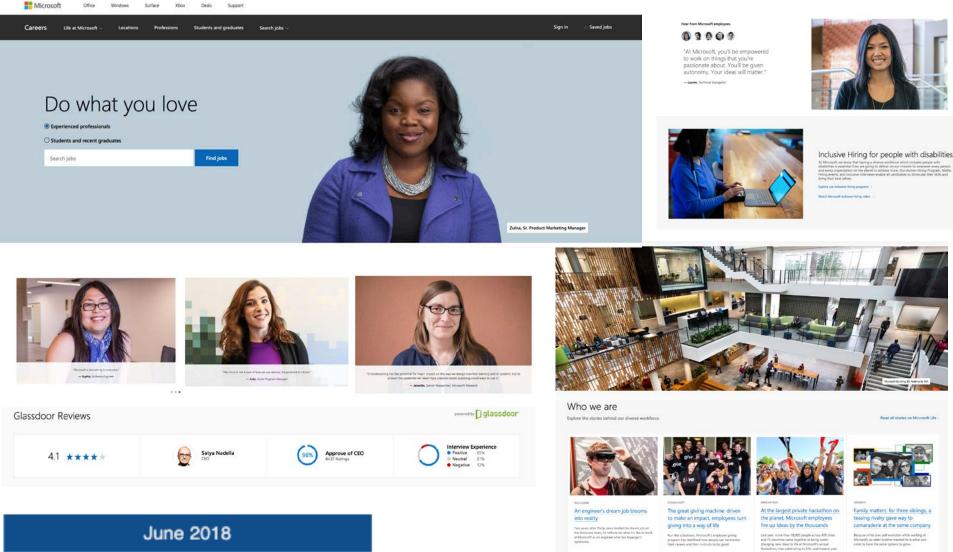
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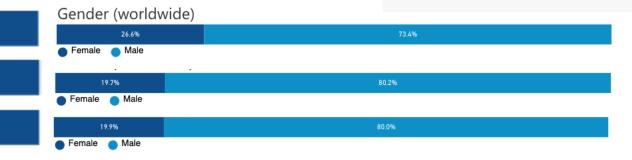




Overall

Tech

Leadership

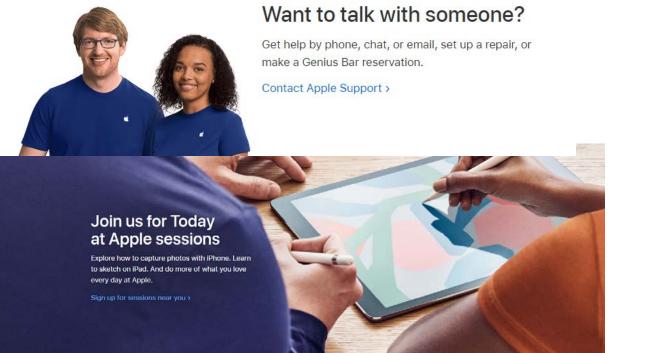




Let's get that fixed

If your Apple device needs repairs, you can go to an Apple Store, visit an Authorized Service Provider, or mail in your device. Whatever you choose, we'll make sure your device works the way it should.

Choose a repair option >



Inclusion & Diversity

Here's data from the last four years.

2017 2016 2015 2014

Inclusion & Diversity

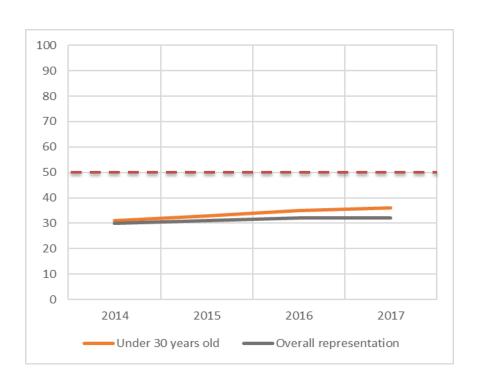
Here's data from the last four years.

2017 2016 2015 2014

Inclusion & Diversity

Here's data from the last four years.

2017 2016 2015 2014



Aspirational Diversity Example



We aren't where we'd like to be, but we're encouraged that over the past year, representation for people from underrepresented groups at Facebook has increased. This year, the number of women globally has risen from 33% to 35% and the number of women in tech has increased from 17% to 19%. Women now make up 27% of all new graduate hires in engineering and 21% of all new technical hires at Facebook. In the US, we have increased the representation of Hispanics from 4% to 5%, and Black people from 2% to 3%.