

Women in Physics Teacher Version













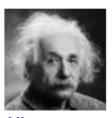
Familiar Physicists



What trends do you notice about the physicists you found in your Google search?



Stephen Hawking



Albert Einstein



Nikola Tesla



Isaac Newton



Galileo Galilei



Marie Curie



Richard Feynman



Guidelines for Conduct During Discussion



Share air time equitably

Value differences

Own your impact

Make sure everyone feels safe

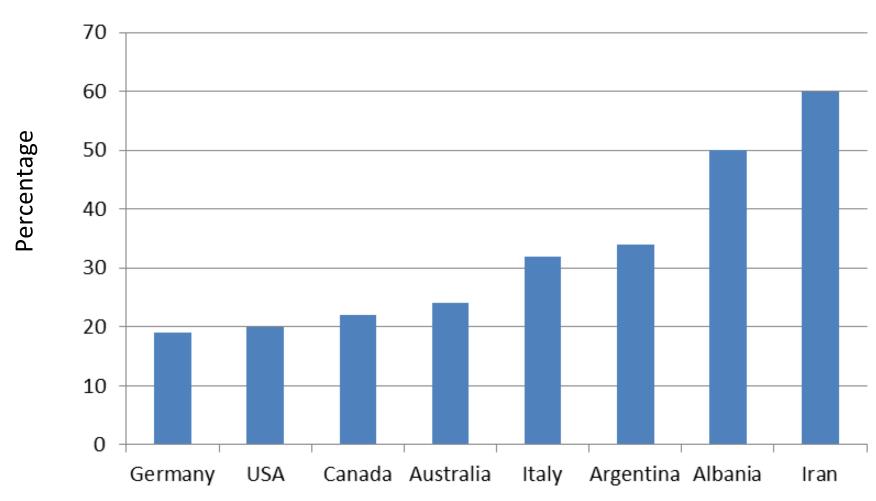
Discomfort is okay

Argue using evidence



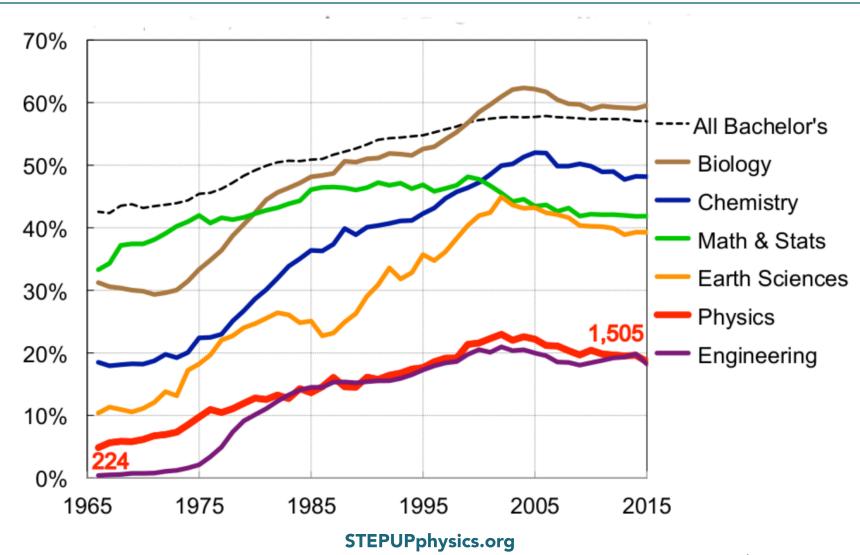
Percentage of Undergraduate Physics Degrees Awarded to Women





Bachelor's Degrees Earned by Women, by Major





Academic Achievement references



Gender Differences in the High School and **Affective Experiences of Introductory College Physics Students**

The Physics Teacher 46, 423 (2008); https://doi.org/10.1119/1.2981292 Zahra Hazari Philip M. Sadler

Robert H. Tai more...

Gender differences in introductory university physics performance: The influence of high school physics preparation and affective factors

Zahra Hazari Robert H. Tai Philip M. Sadler

First published: 29 May 2007 https://doi.org/10.1002/sce.20223

MAAAS

Citations: 77

Home | Publications | APS News | April 2016 (Volume 25, Number 4) | Physics **Grading Biased Against Women APS** NEWS **Physics Grading Biased Against Women** By Emily Conover A complies print of factors seems to be holding somer track from the fall of physics, and now it appears that grading fragers trap play a part A recent study performed in several flarmage. spending countries state alon that physics treathers goe better gradies is male stud bonale cludicity — even when their process pre-obsolical Housever the bian disappears as

both penders pase trace grades to female students, while in Germany female trachers Replaced the same bas. Susprisingly, male Demogr trachers were an exception to the pattern

Gender stereotypes about intellectual ability emerge early and influence children's interests Science

men more than women. These stereotypes discourage women's pursuit of many

brilliance (such as physics and philosophy). Here we show that these stereotypes are

less likely than boys to believe that members of their gender are "really, really.

Lin Bian, 1,2* Sarah-Jane Leslie, Andrei Cimpian 1,2*

and have an immediate effect on children's interests

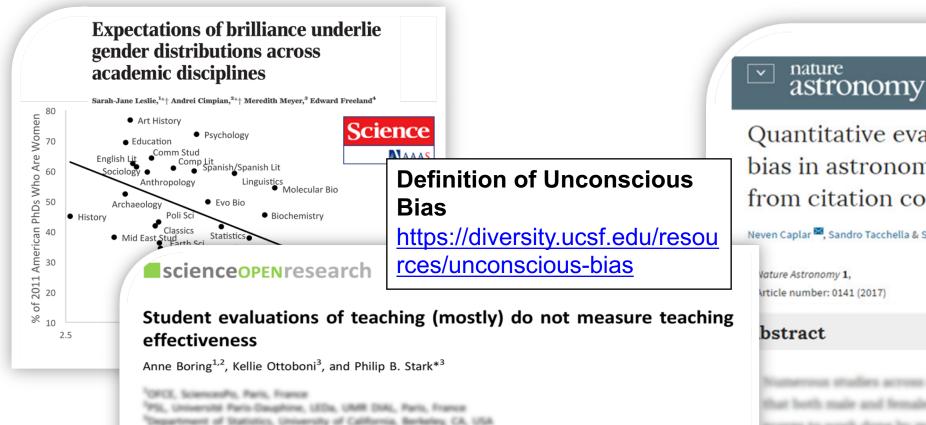




Unconscious Bias references

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Student evaluations of teaching (SET) are widely used in academic personnel decisions as a measure of teaching

amount that is large and statistically significant

are biased against female instructors by an

Quantitative evaluation of gender bias in astronomical publications from citation counts Neven Caplar , Sandro Tacchella & Simon Birrer Received: 09 September 2016 Article number: 0141 (2017) Accepted: 21 April 2017 is studies across different research fields have shown that both male and female referees consistently give higher scores to work done by men than to identical work done by sen 133. In addition, women are under-represented in

tigious publications and authorship positions 47 and

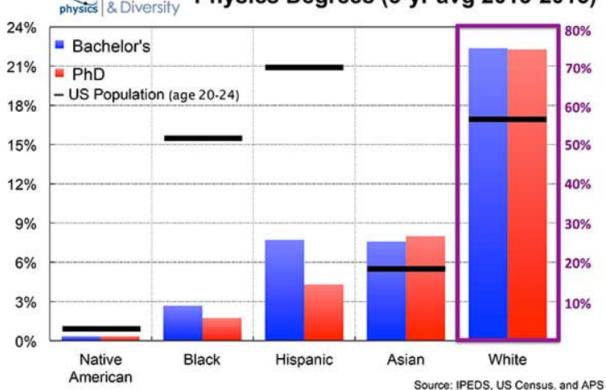
biases have been measured in conference participation 11

sen receive -10% fewer citations ^{4,7}. In astronomy, similar

Physics Degrees Earned by Groups Underrepresented in Physics

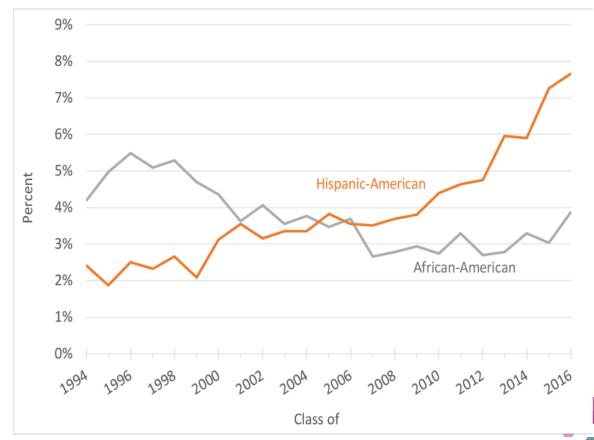






Credit: APS/Source: IPEDS Completion Survey

The Proportion of Physics Bachelor's Degrees Awarded to African-Americans and Hispanic-Americans.



Task 3: Personal Reflection Writing Prompt



Describe experiences you or a friend has had related to science and gender issues.

Examples:

Who do you feel comfortable working with in class?

Do you feel more comfortable in any particular class?

Have you felt your abilities being questioned?



Task 3: 2nd Written Response & Group Discussion



Do you think societal beliefs related to gender have any influence on the career you want to pursue?

Careers you would not consider?



Task 3: Proposing Strategies



What can be done to support diversity in physics? What could you do?















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