

Equity Issues in Physics (and STEM)

Mike Childress

**“String Theory & Gender” Workshop
Thursday 16 March 2017**

Outline

Part 1:

Gender Demographics in Physics in the UK

Part 2:

Factors contributing to inequity

Closest comment(s):

how can we make (lasting) progress!!

Preface: the many axes of diversity

Examples / issues that follow are frequently framed in terms of gender or race but keep in mind there are other axes of diversity which have similar (but distinct!) difficulties.

Each individual's personal identity is more like a matrix than a scalar¹.

(People with multiple aspects of diversity may have experiences that are not the simple product of experiences from each individual aspect.)

¹from “Intersectionality as a blueprint for postcolonial scientific community building” by Dr. Chanda Prescod-Weinstein

PART 1:

Demographics Data in Physics (+ other STEM fields)

Gender statistics for A-level students

subtitle: we're already behind by the time students get to Uni

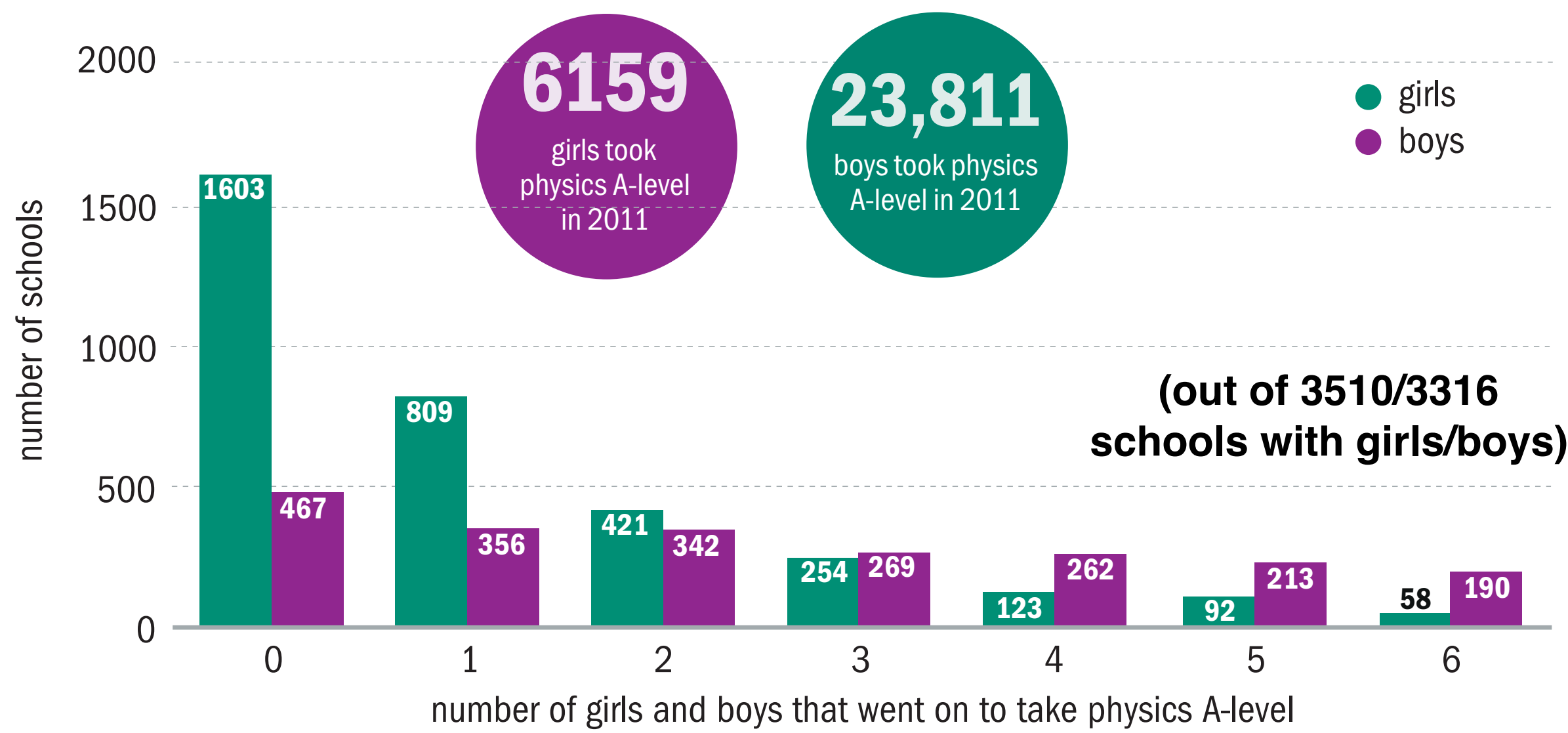


Source: “It’s Different for Girls: The Influence of Schools”; IOP report 2012

Gender statistics for A-level students

subtitle: we're already behind by the time students get to Uni

Figure 1a: Number of schools against the numbers of girls and boys progressing to A-level physics in 2011



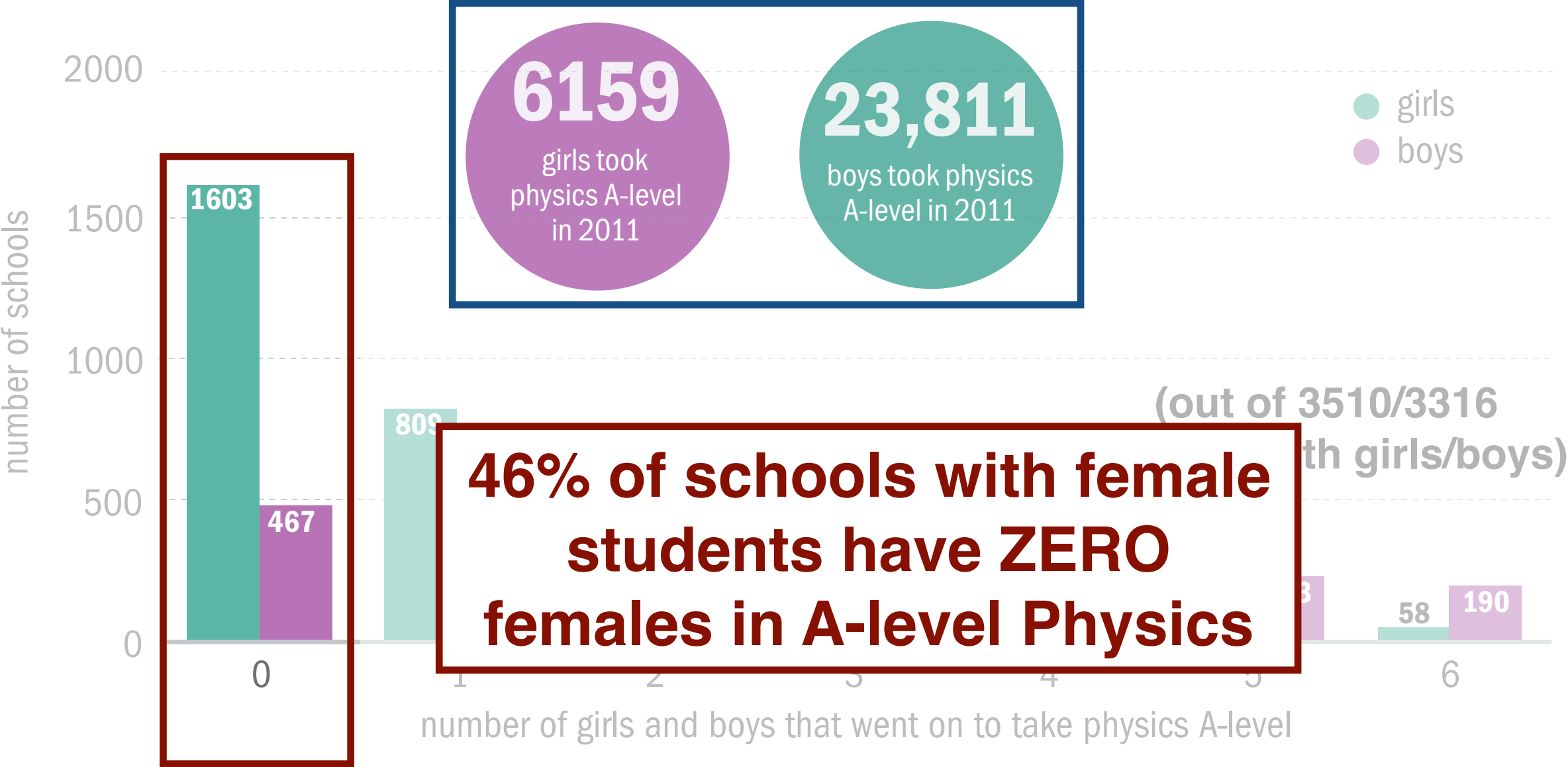
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Gender statistics for A-level students

subtitle: we're already behind by the time students get to Uni

Figure 1a: Number of schools in 2011

79% of A-level physics students are male

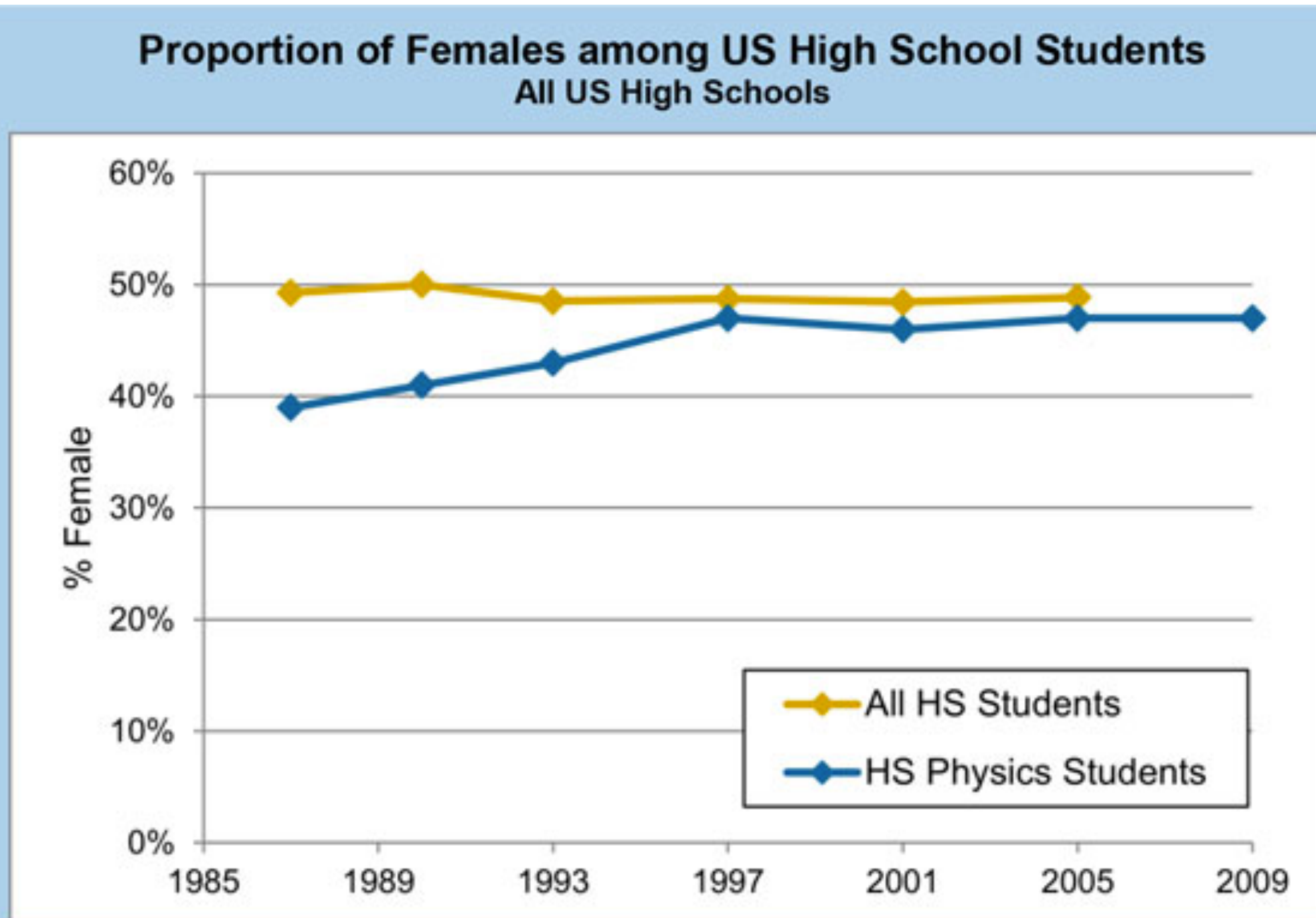


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Gender statistics for A-level students



subtitle: we're already behind by the time students get to Uni



Data for all high school students from US Department of Education, National Center for Education Statistics

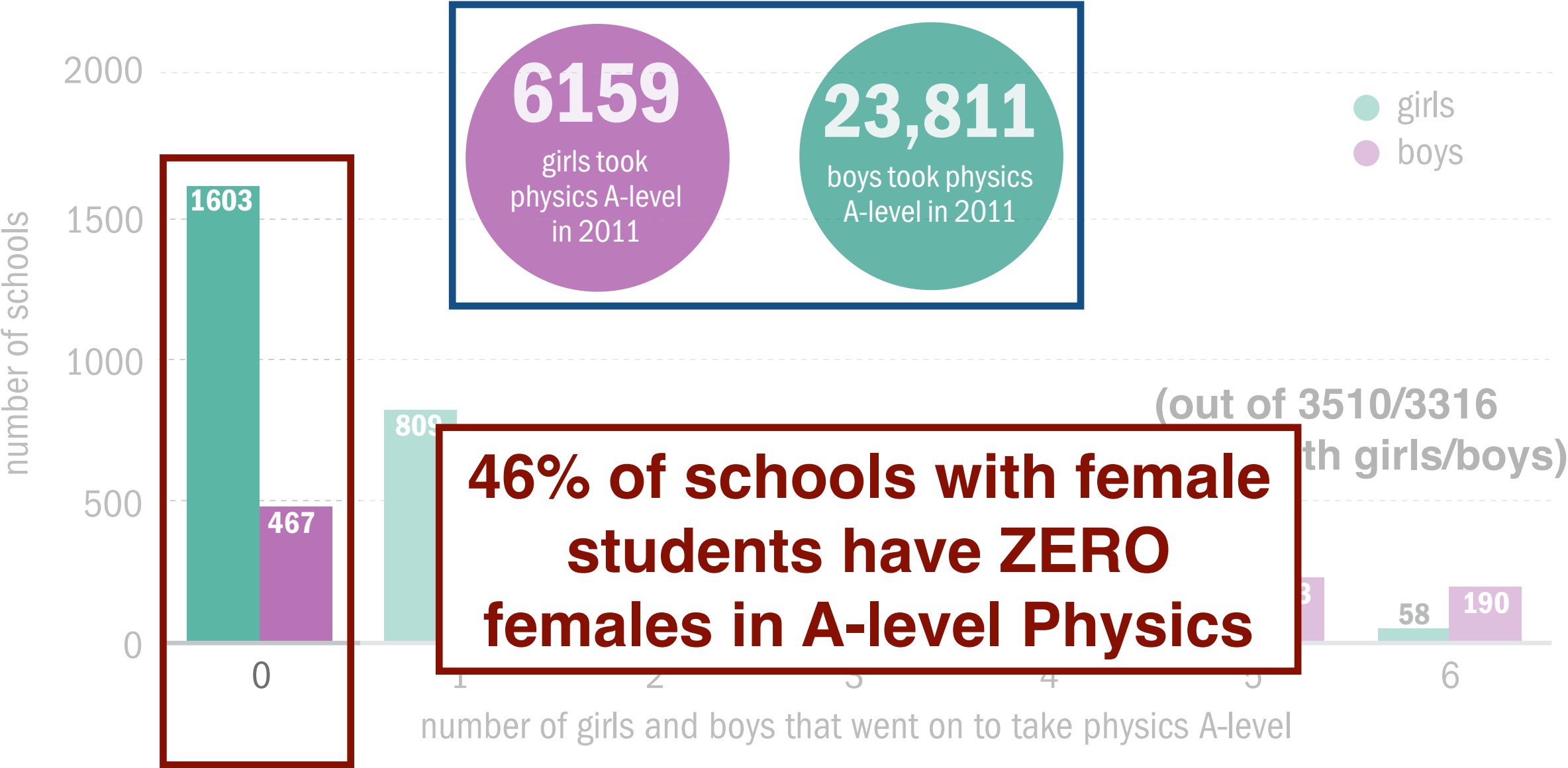
<http://www.aip.org/statistics>

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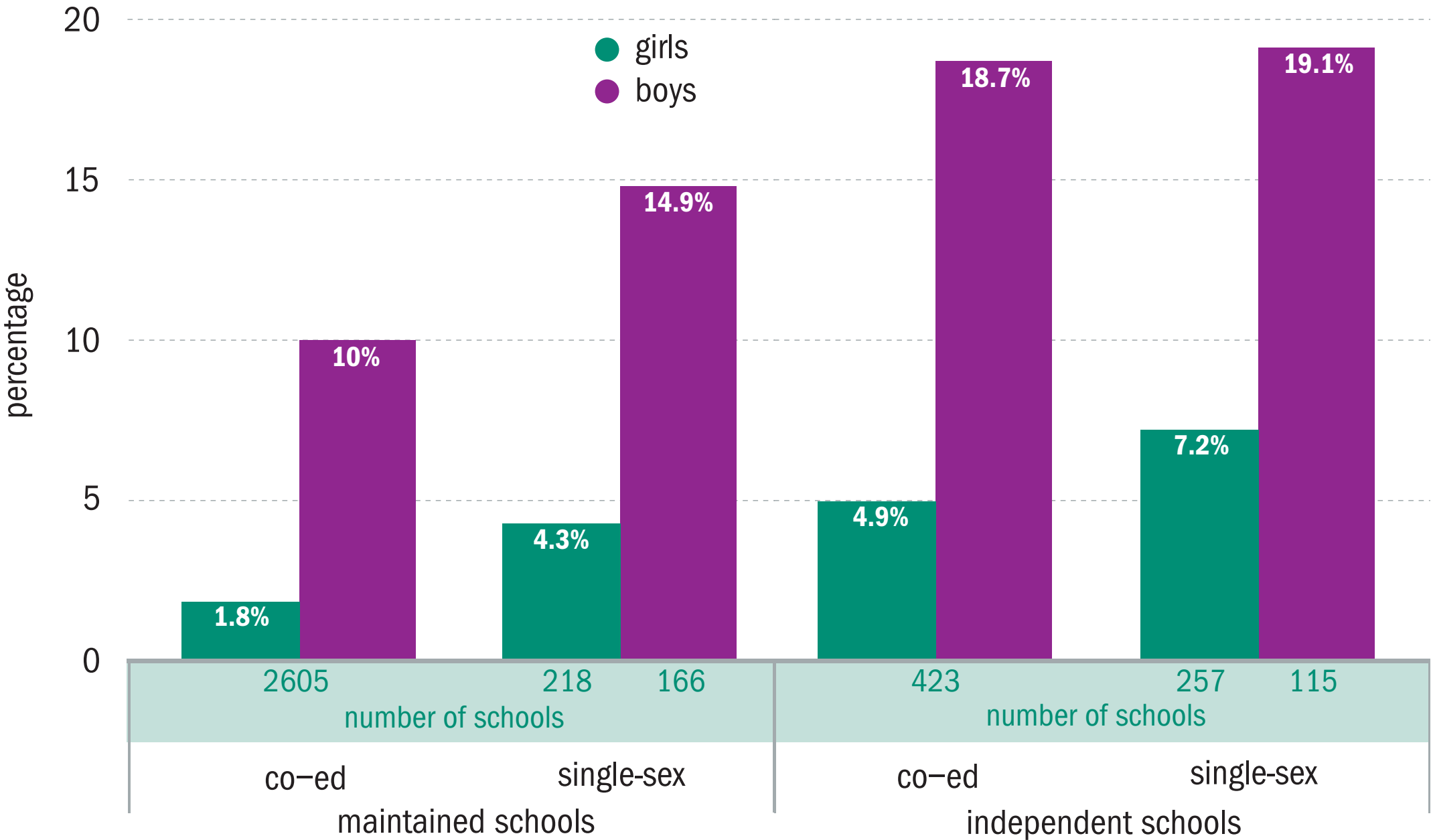


Source: "It's Different for Girls: The Influence of Schools"; IOP report 2012

Gender statistics for A-level students

subtitle: we're already behind by the time students get to Uni

Figure 2: Percentages of girls and boys who went on to take physics A-level in 2011 by type of school

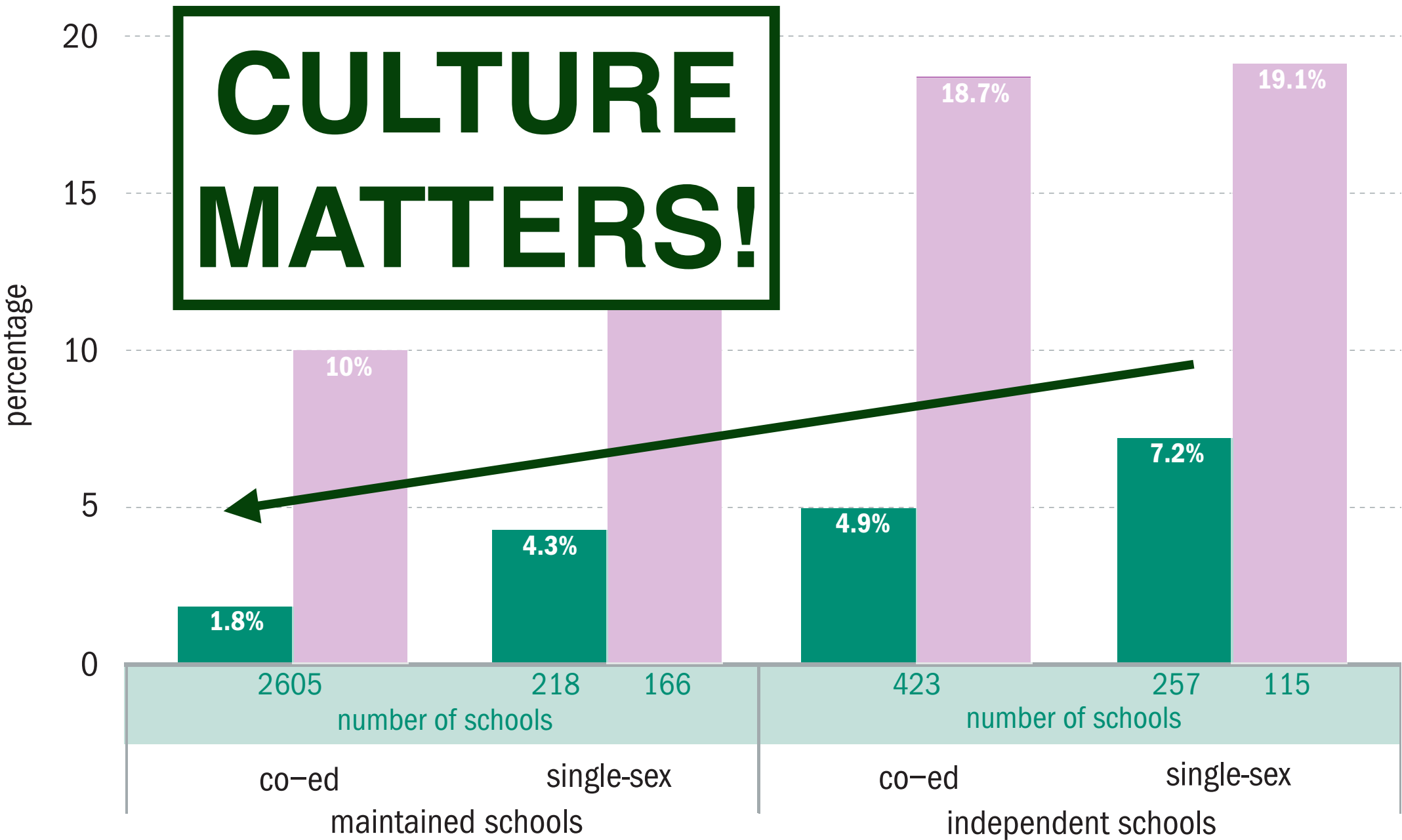


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subtitle: we're already behind by the time students get to Uni

Figure 2: Percentages of girls and boys who went on to take physics A-level in 2011 by type of school



Source: “It’s Different for Girls: The Influence of Schools”; IOP report 2012

Gender statistics for physics university students

Table 8: The proportion of physics graduates that is female by level of study 2004/05 to 2011/12

Degree level	Proportion of graduates that is female*							
	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12
First degree	21.0%	21.6%	21.6%	21.2%	20.6%	21.4%	22.9%	22.1%
Masters	32.8%	33.1%	29.0%	27.5%	29.8%	23.9%	28.8%	29.7%
Doctorate	22.2%	21.3%	22.5%	24.6%	26.6%	23.5%	24.0%	24.6%
*Proportions are based on headcounts of graduates iwho spent 50% or more of their time studying physics.								

Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

We’re recruiting female physicists at a level consistent with A-level demographics, and retaining females through PhD level at a consistent (adequate) rate.

Gender statistics for physics students

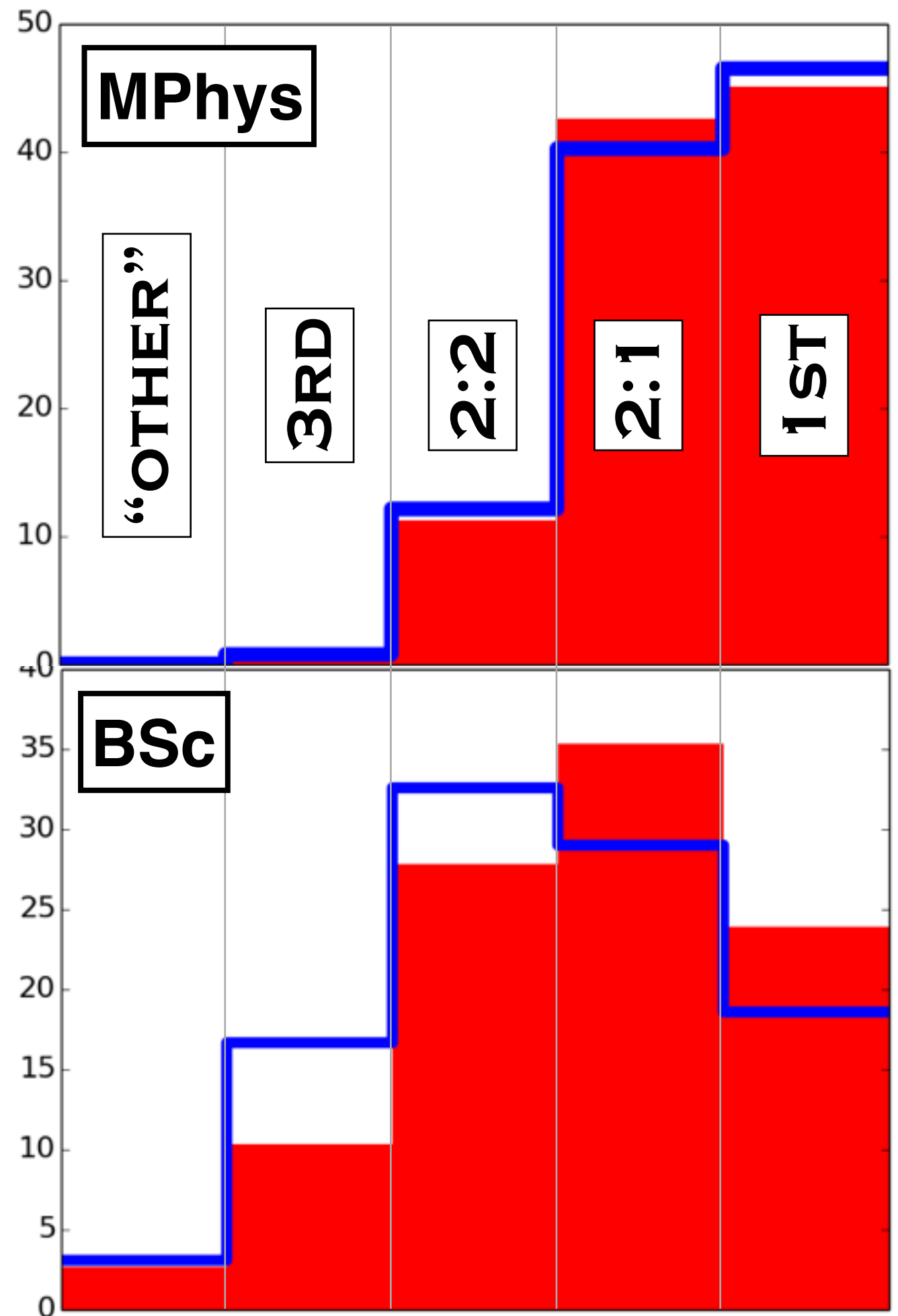
Degree classifications by gender for:

enhanced first degree (i.e. MPhys — top) and bachelors (BSc — bottom) averaged for graduates from 2009-2014

Male

Female

Source: “Physics Students in UK Higher Education Institutions”; IOP report 2012



Gender statistics for physics students

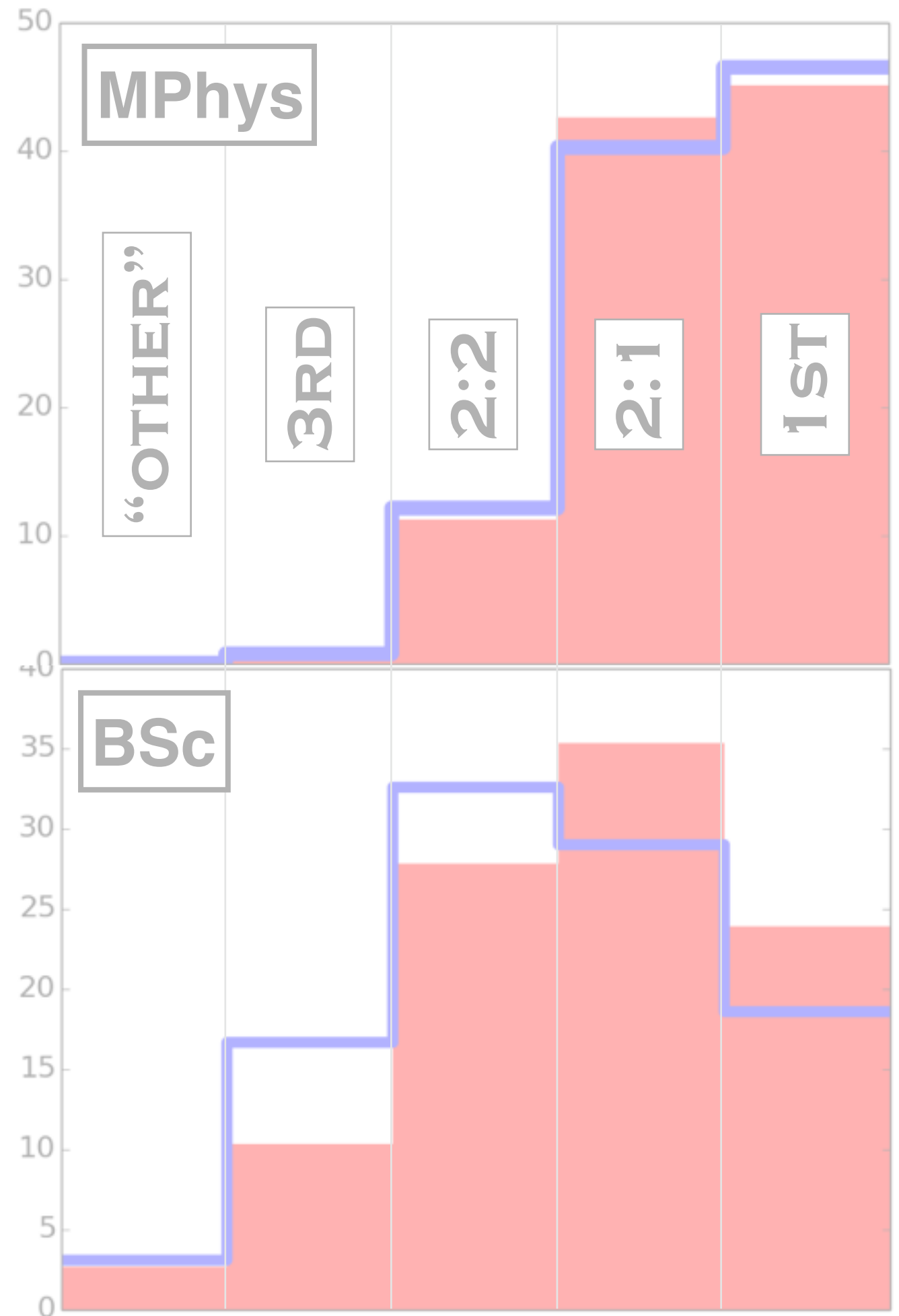
Anyone who says “women aren’t as good at physics as men” is an idiot (here’s the proof).

bachelors (BSc — bottom)
averaged for graduates
from 2009-2014

Male

Female

Source: “Physics Students in UK Higher Education Institutions”; IOP report 2012



Gender statistics for physics university students

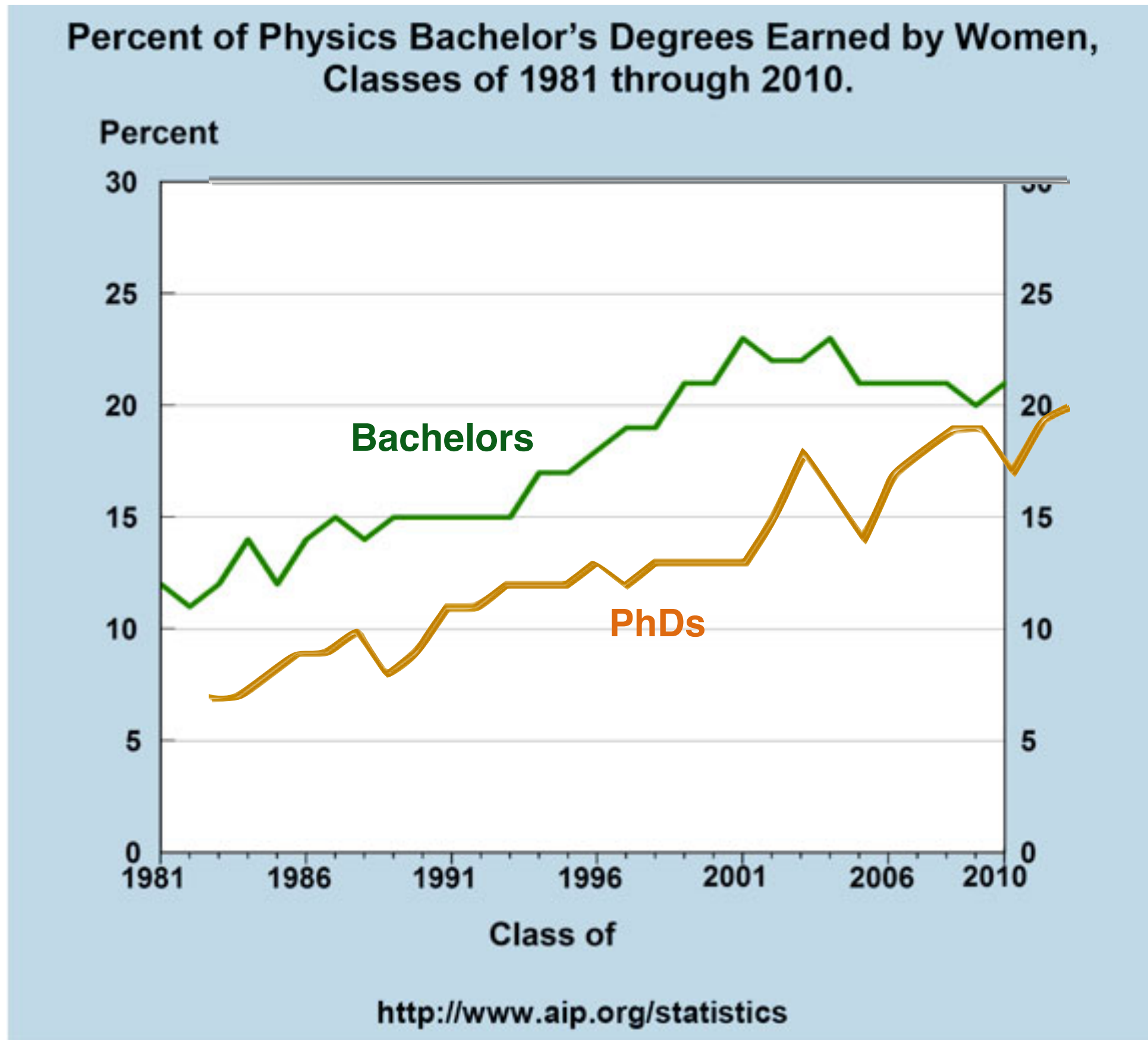
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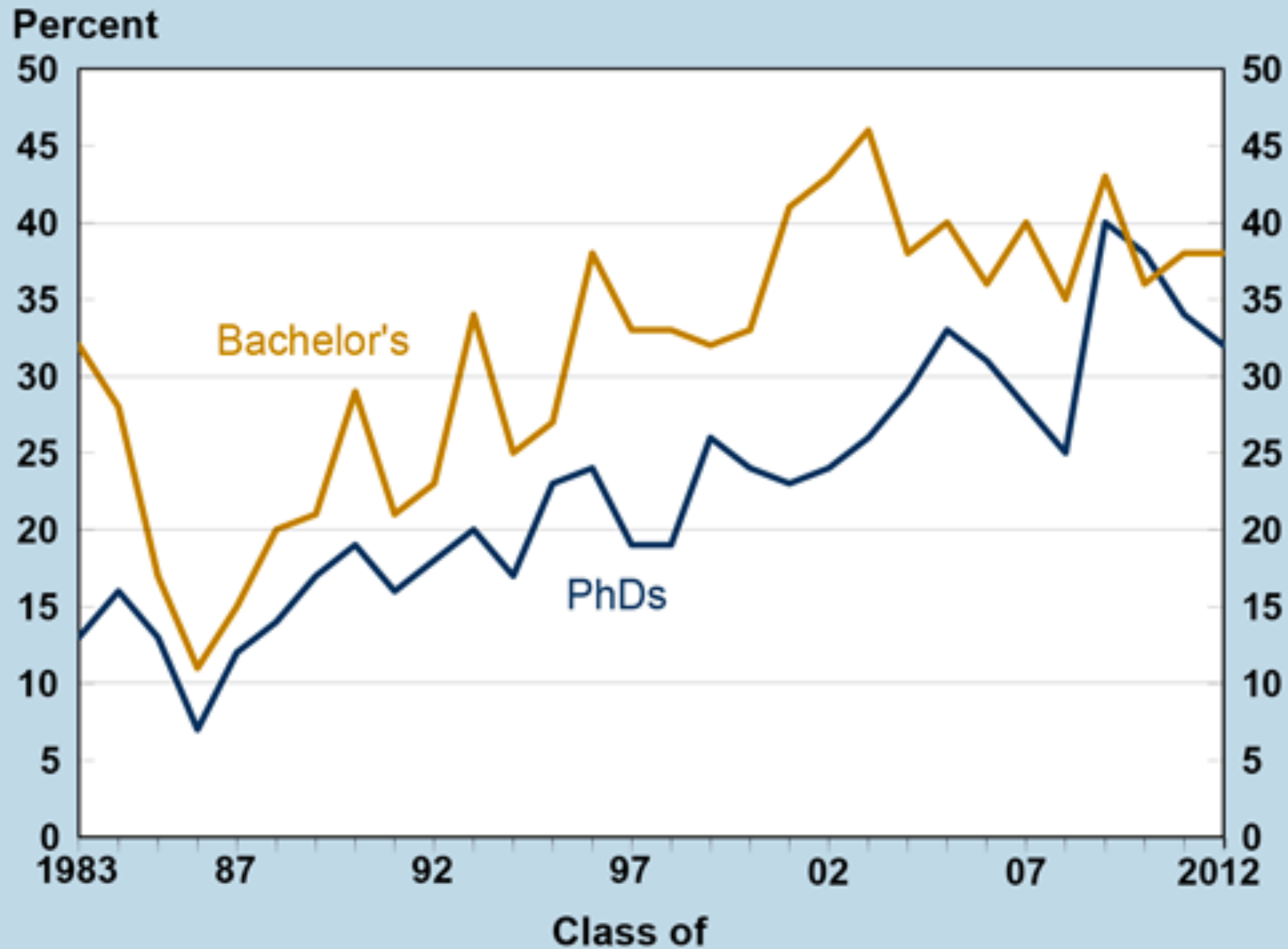
Gender statistics for physics university students



Gender statistics for ASTRONOMY university students



**Percent of Bachelor's Degrees and Doctorate's in Astronomy
Earned by Women, Classes 1983 through 2012.**



<http://www.aip.org/statistics>

Gender statistics for physics university students

Table 8: The proportion of physics graduates that is female by level of study 2004/05 to 2011/12

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Doctorate	22.2%	21.3%	22.5%	24.6%	26.6%	23.5%	24.0%	24.6%
*Proportions are based on headcounts of graduates iwho spent 50% or more of their time studying physics.								

Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

You may think we’re doing well at recruiting students
and advancing them through academic degrees...

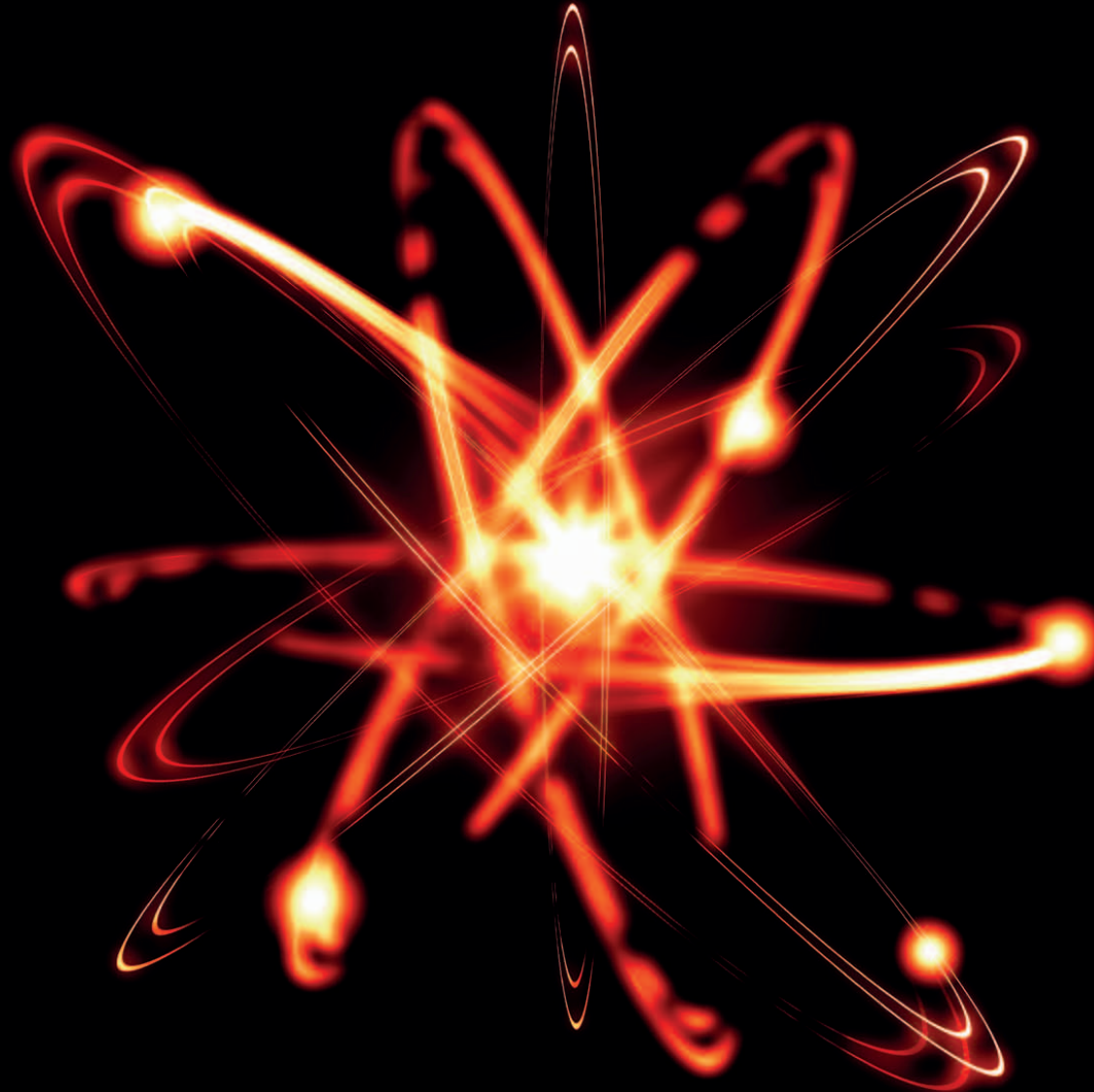
but here is where things start to get bad

Gender statistics for physics academics

A report prepared for the Institute of Physics by Oxford Research & Policy | December 2013

Academic physics staff in UK higher education institutions

Updated with data for 2010/11 and 2011/12



Gender statistics for physics academics

In physical sciences & engineering, females make up a low percentage of academic staff THAT IS NOT GROWING

Table 5: The proportion of all staff* that is female in selected academic cost centres 2003/04 to 2011/12, excluding teaching-only staff

Cost centre	Proportion of staff that is female								
	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12
Physics	14%	15%	15%	14%	15%	15%	16%	16%	16%
Mathematics	18%	21%	22%	16%	18%	18%	18%	17%	18%
Chemistry	23%	23%	24%	23%	23%	24%	24%	24%	24%
Electrical, electronic & computer engineering	12%	12%	13%	12%	11%	12%	12%	13%	13%
Biosciences	39%	40%	41%	40%	40%	41%	41%	41%	42%
All cost centres	40%	41%	42%	40%	40%	41%	41%	42%	42%

**All staff comprises professors, senior lecturers, lecturers, other staff and researchers.*

Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

Gender statistics for physics academics

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Physics	14%	15%	15%	14%	15%	15%	16%	16%	16%

Table 1: The number of staff in selected academic cost centres by grade 2003/04 to 2011/12

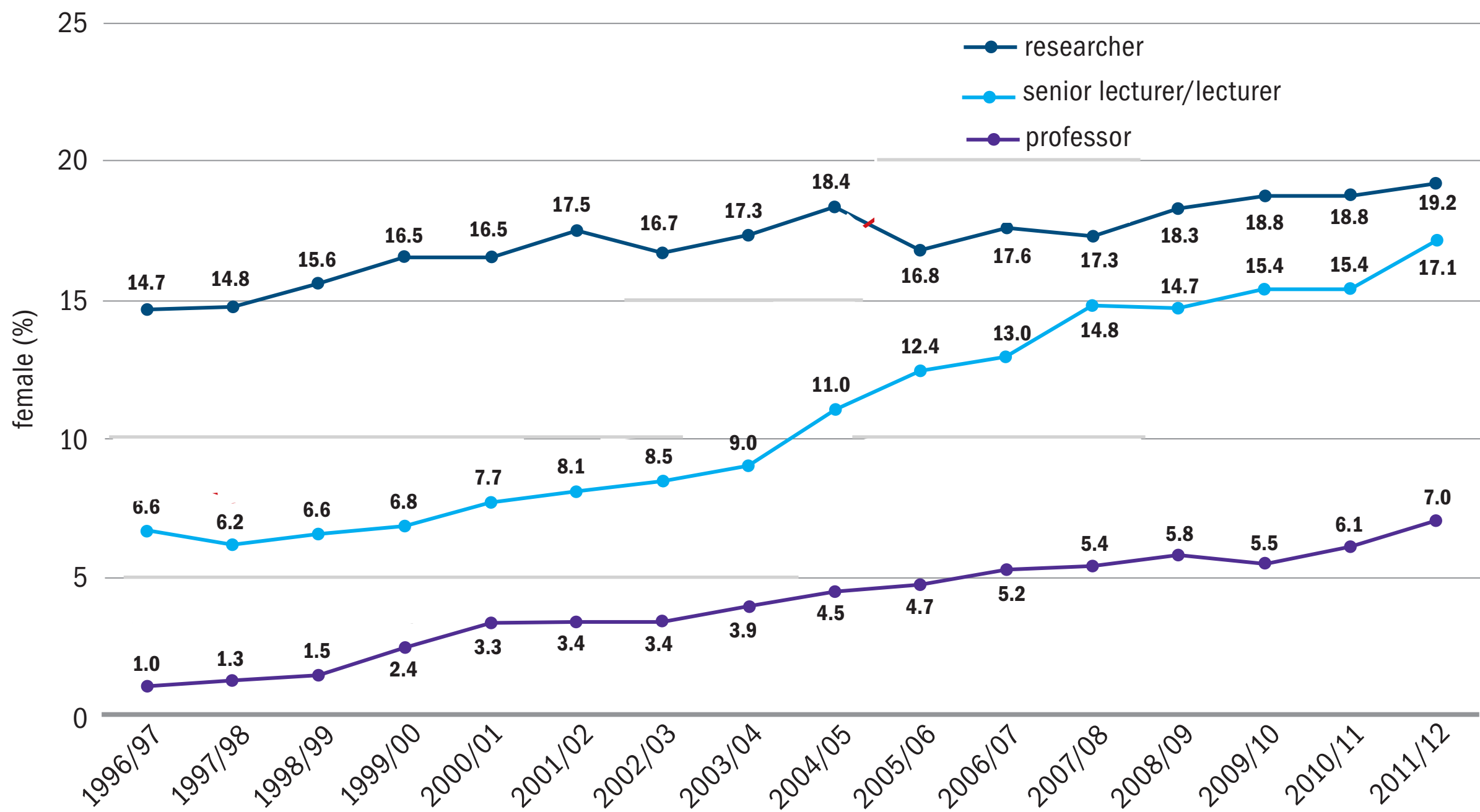
Cost centre	Grade	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12
Physics	Professor	485	515	570	590	620	635	650	670	745
	Senior lecturer	590	600	570	555	585	1355	1335	1320	1350
	Lecturer	390	380	375	400	420				
	Other grades	255	265	350	330	350	10	0	0	0
	Researcher	1790	1745	1900	1995	2125	2210	2180	2145	2110
	Teaching only				310	335	385	365	345	355
	Total staff	3510	3505	3765	3865	4100	4210	4170	4140	4205

Note: Stats dominated by # of postdocs

Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

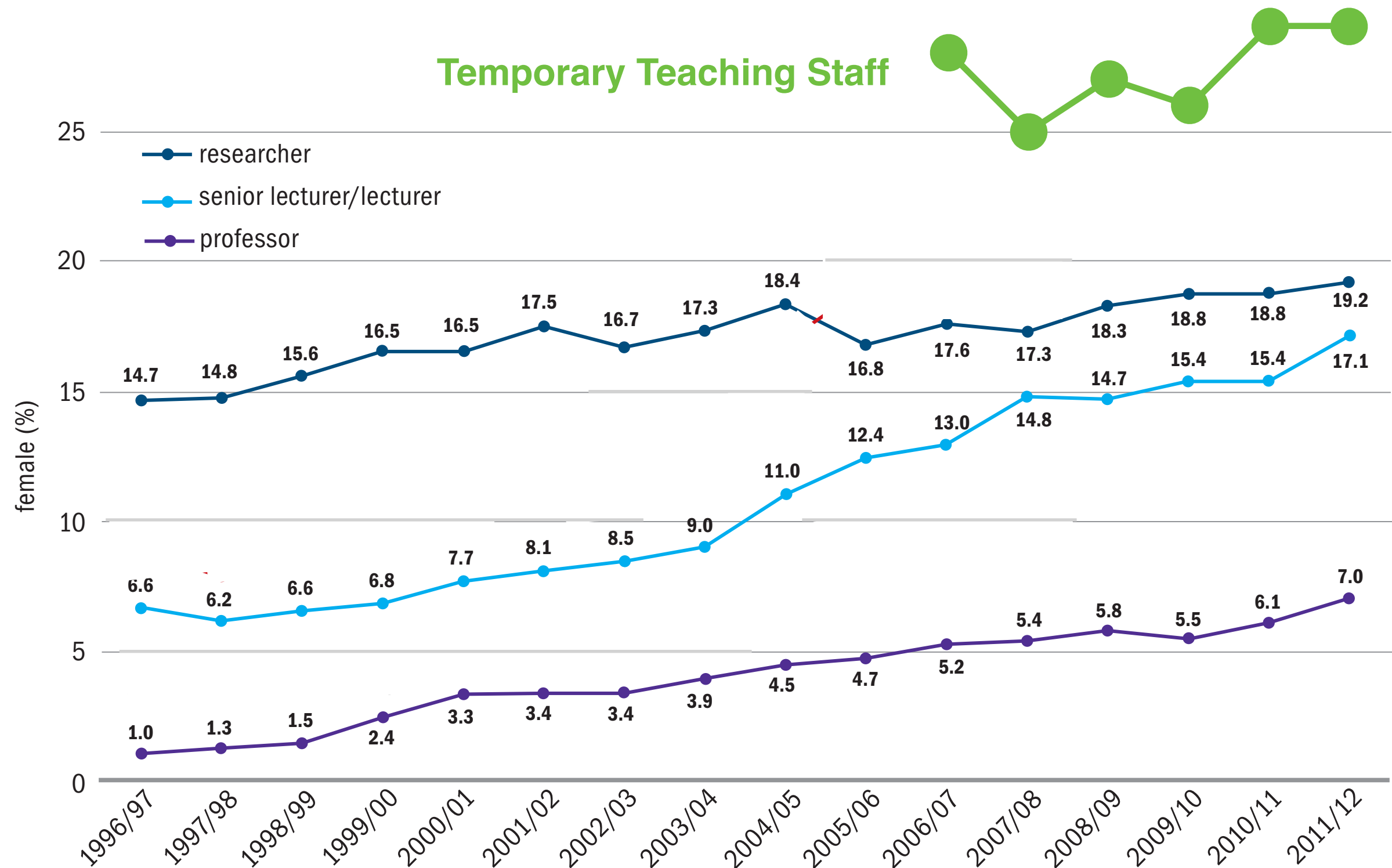
Gender statistics for physics academics

Figure 3: Proportion of all staff that is female in the physics cost centre at each grade 1996/97 to 2011/12



Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

Gender statistics for physics academics



Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

Gender statistics for physics academics



Percentage of Physics Faculty Members Who Are Women

	Year			
	1998	2002	2006	2010
by Academic Rank	(%)	(%)	(%)	(%)
Full Professor	3	5	6	8
Associate Professor	10	11	14	15
Assistant Professor	17	16	17	22
Instructor / Adjunct	*	16	19	21
Other ranks	13	15	12	18
by Highest Degree Offered by Department	(%)	(%)	(%)	(%)
PhD	6	7	10	12
Master's	9	13	14	15
Bachelor's	11	14	15	17
OVERALL	8	10	12	14

The year in the table refers to the spring semester; for example, 2010 represents the 2009-10 academic year.

* These data were not collected in this survey year.

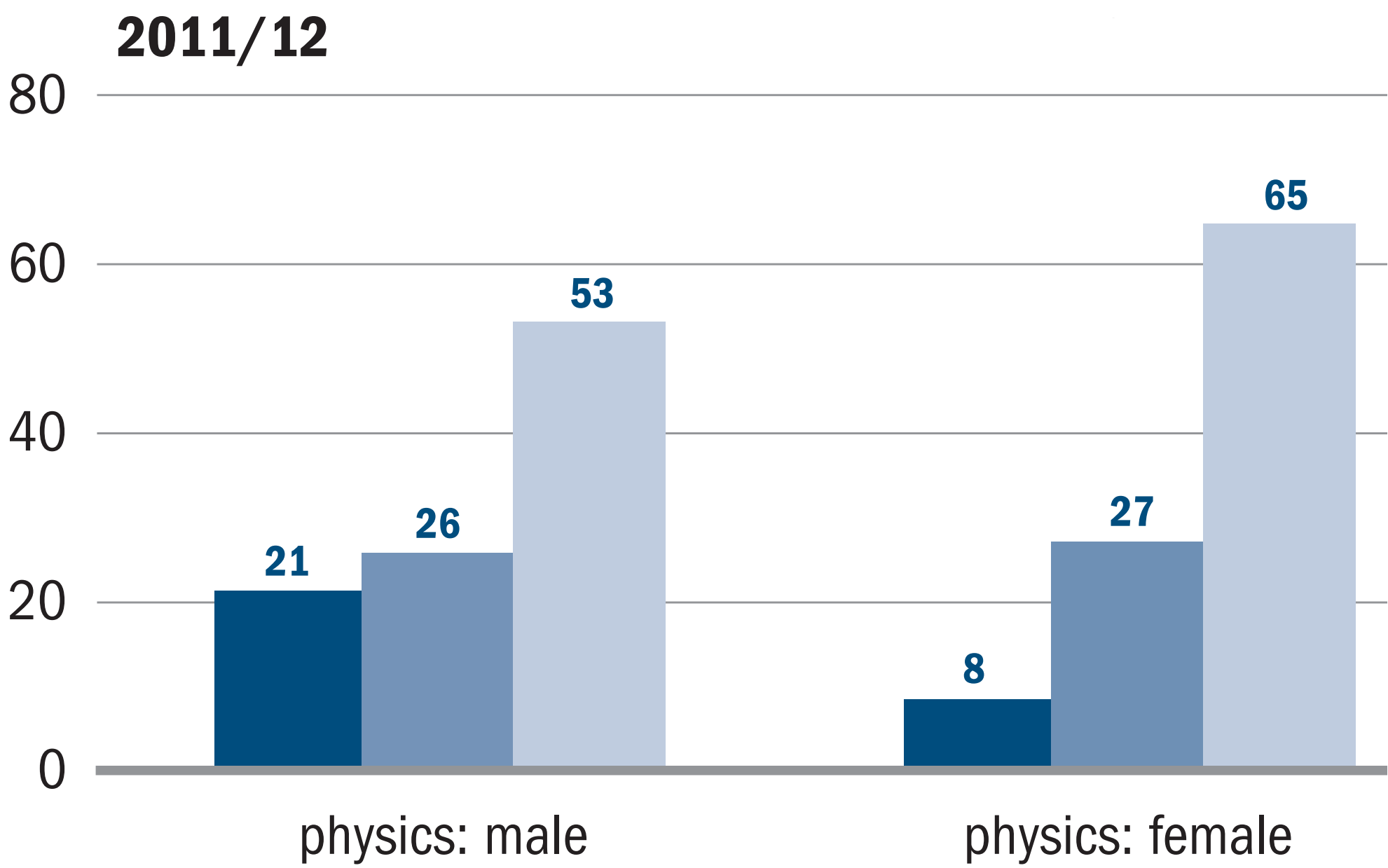
<http://www.aip.org/statistics>

= Reader
= Lecturer
=Teaching

Gender statistics for physics academics

Figure 4: Percentage distribution of male and female academic staff* excluding teaching-only staff, between grades in physics and all academic cost centres 2003/04 to 2011/12

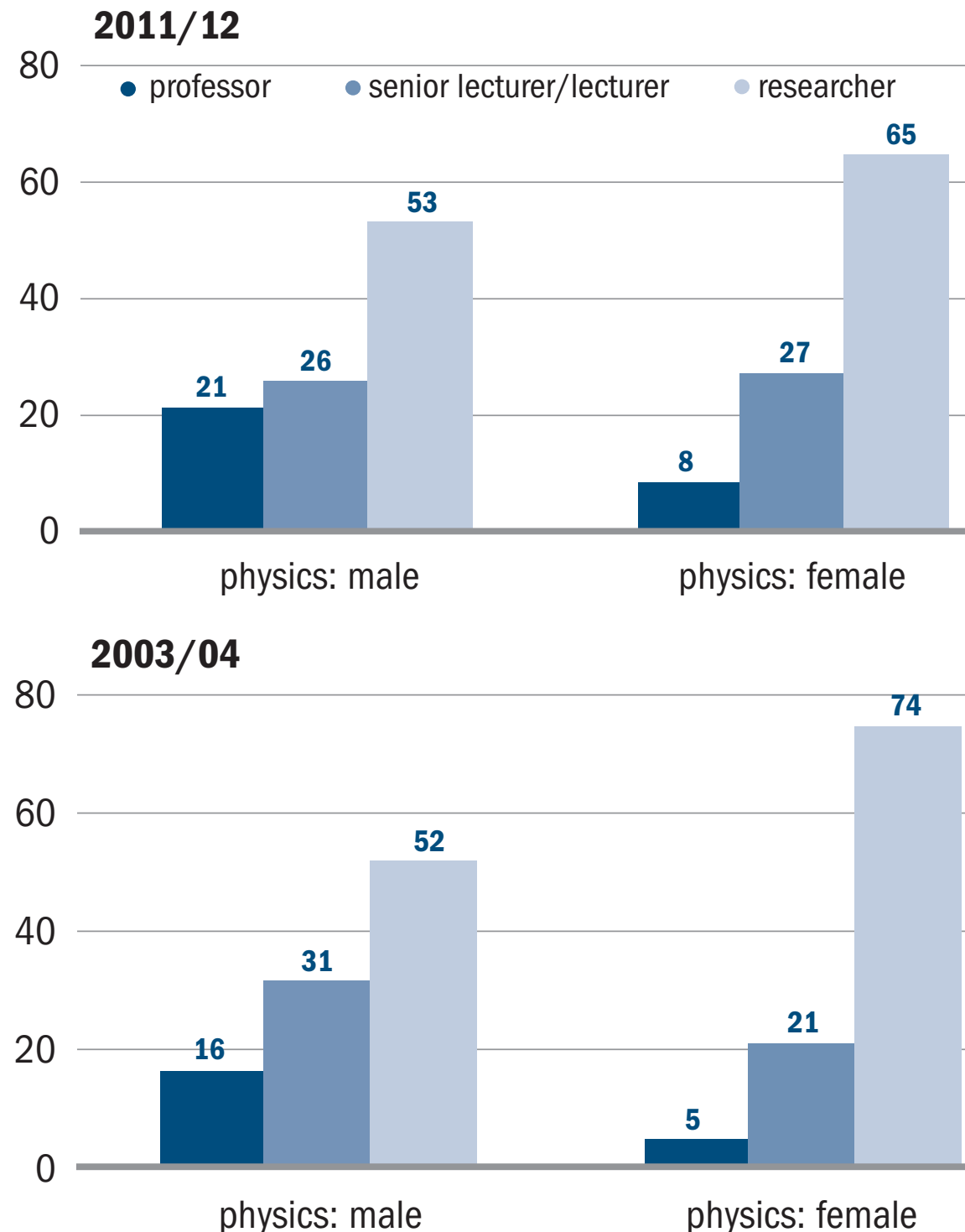
● professor ● senior lecturer/lecturer ● researcher



Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

Gender statistics for physics academics

Figure 4: Percentage distribution of male and female academic staff* excluding teaching-only staff, between grades in physics and all academic cost centres 2003/04 to 2011/12



The fraction of male academics occupying senior roles is higher than that for females, AND THE SITUATIONS WAS EXACTLY THE SAME A DECADE AGO

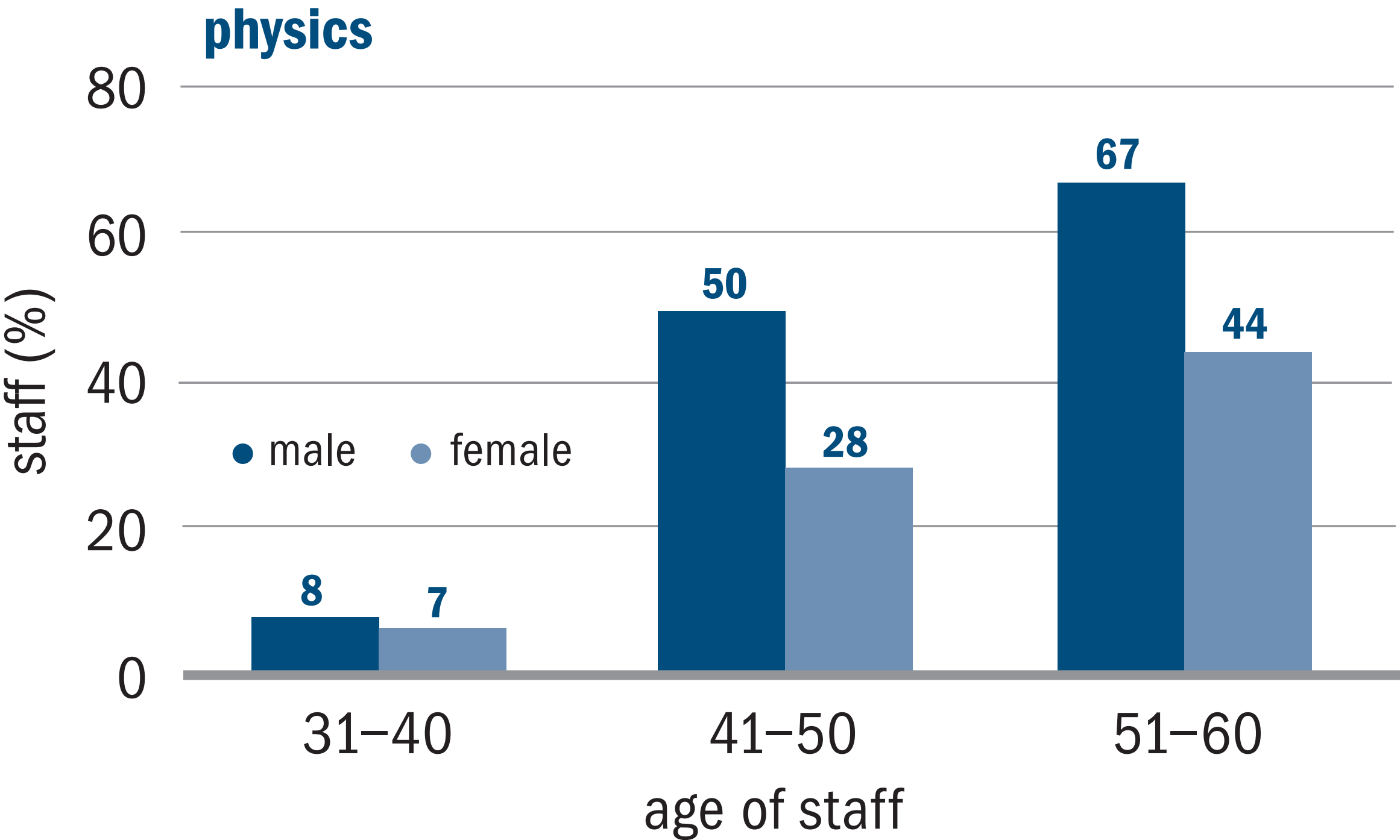
STATUS QUO:

Male academics are consistently being given more senior promotions than female academics in physics

Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

Gender statistics for physics academics

Figure 7: Proportion of male and female permanent academic* staff who were professors by age in selected academic cost centres 2011/12, excluding teaching-only staff



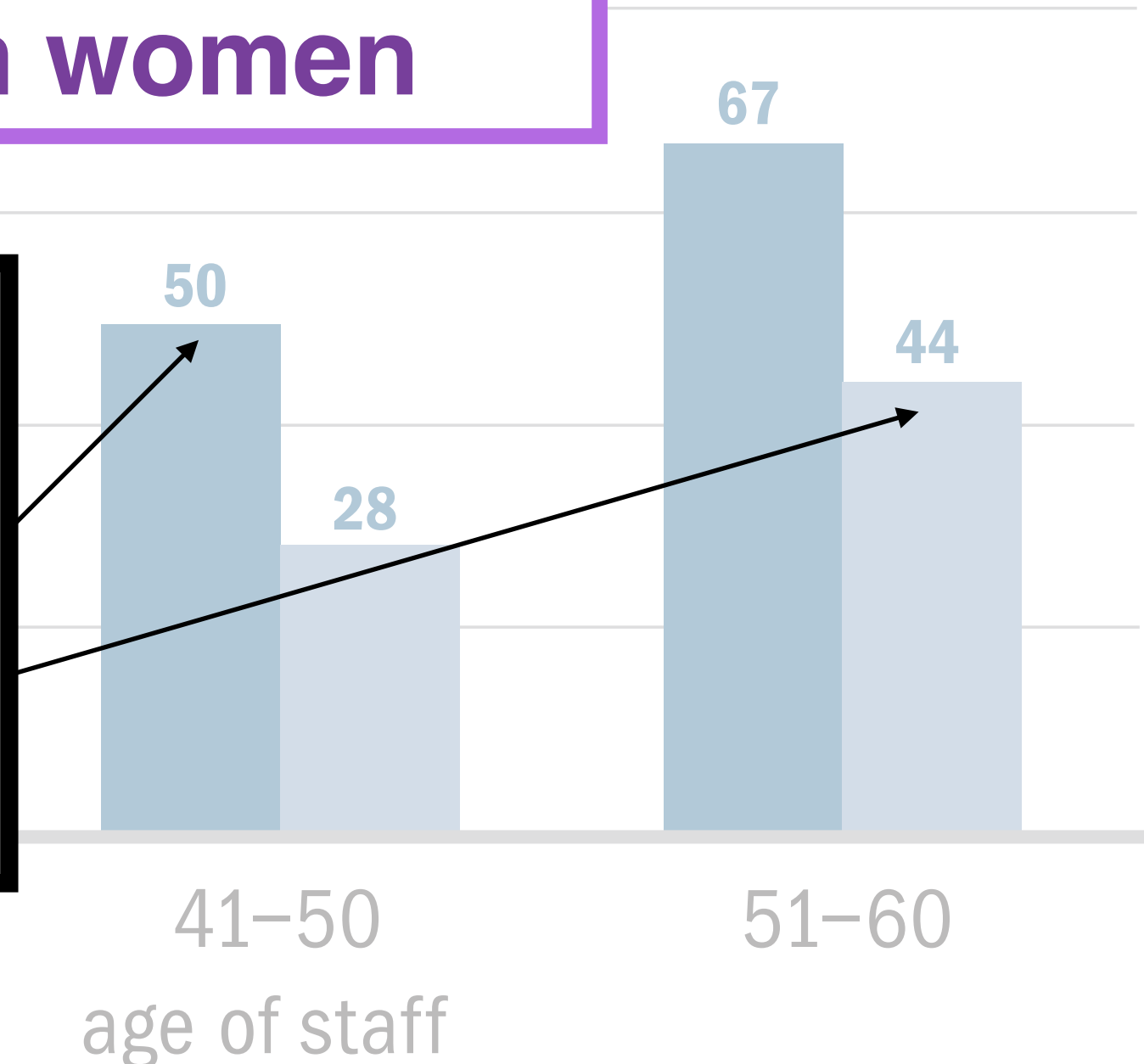
Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

Gender statistics for physics academics

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Men are being promoted faster than women

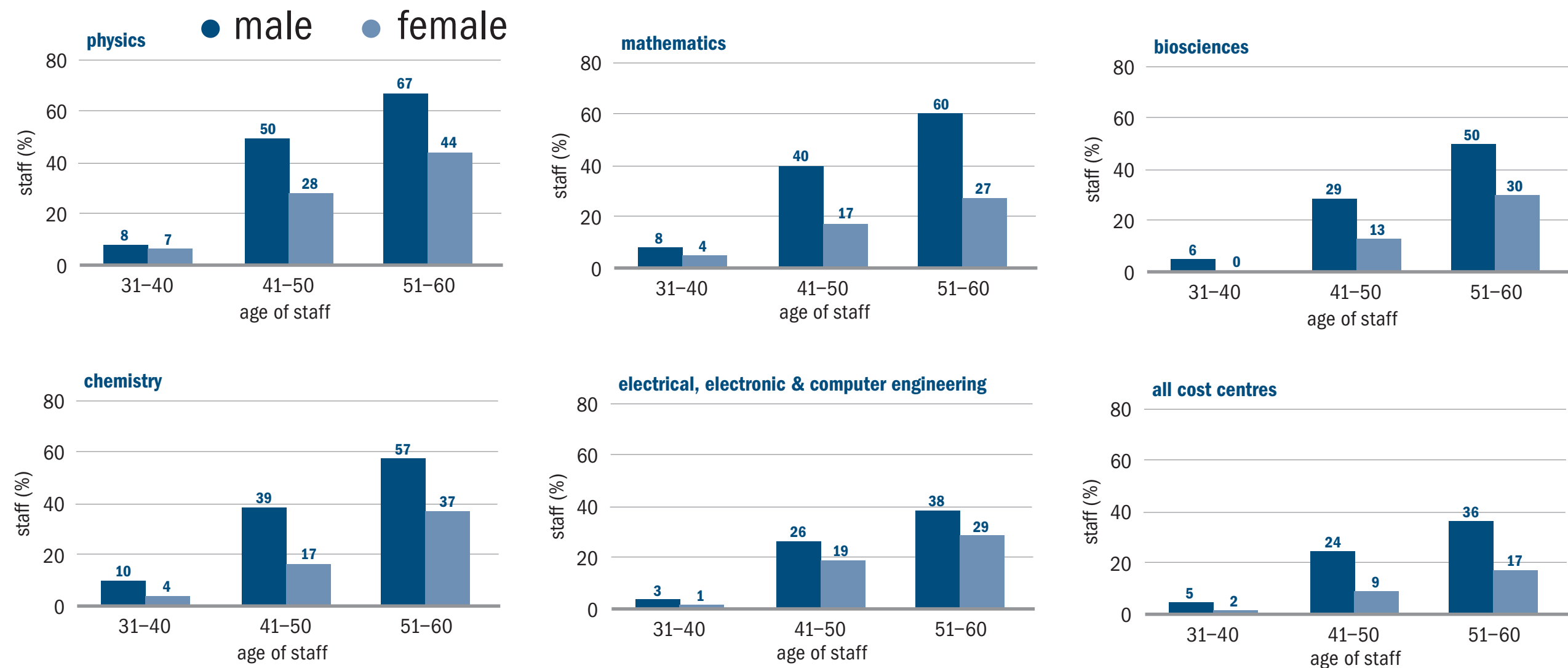
It takes at least **ten years longer on average** for an equal number of women to have achieved full professor status.



Gender statistics for physics academics

Men are being promoted faster than women *in all STEM disciplines*

Figure 7: Proportion of male and female permanent academic* staff who were professors by age in selected academic cost centres 2011/12, excluding teaching-only staff



Source: “Academic Physics Staff in UK Higher Education Institutions”; IOP report 2013

PART 1:

Summary:

- (1) Student demographics in physic NOT reflective of general population (gender and race).**
- (2) Demographics of academic staff are WORSE, and get progressively worse the higher you go (promotion levels).**

PART 2:

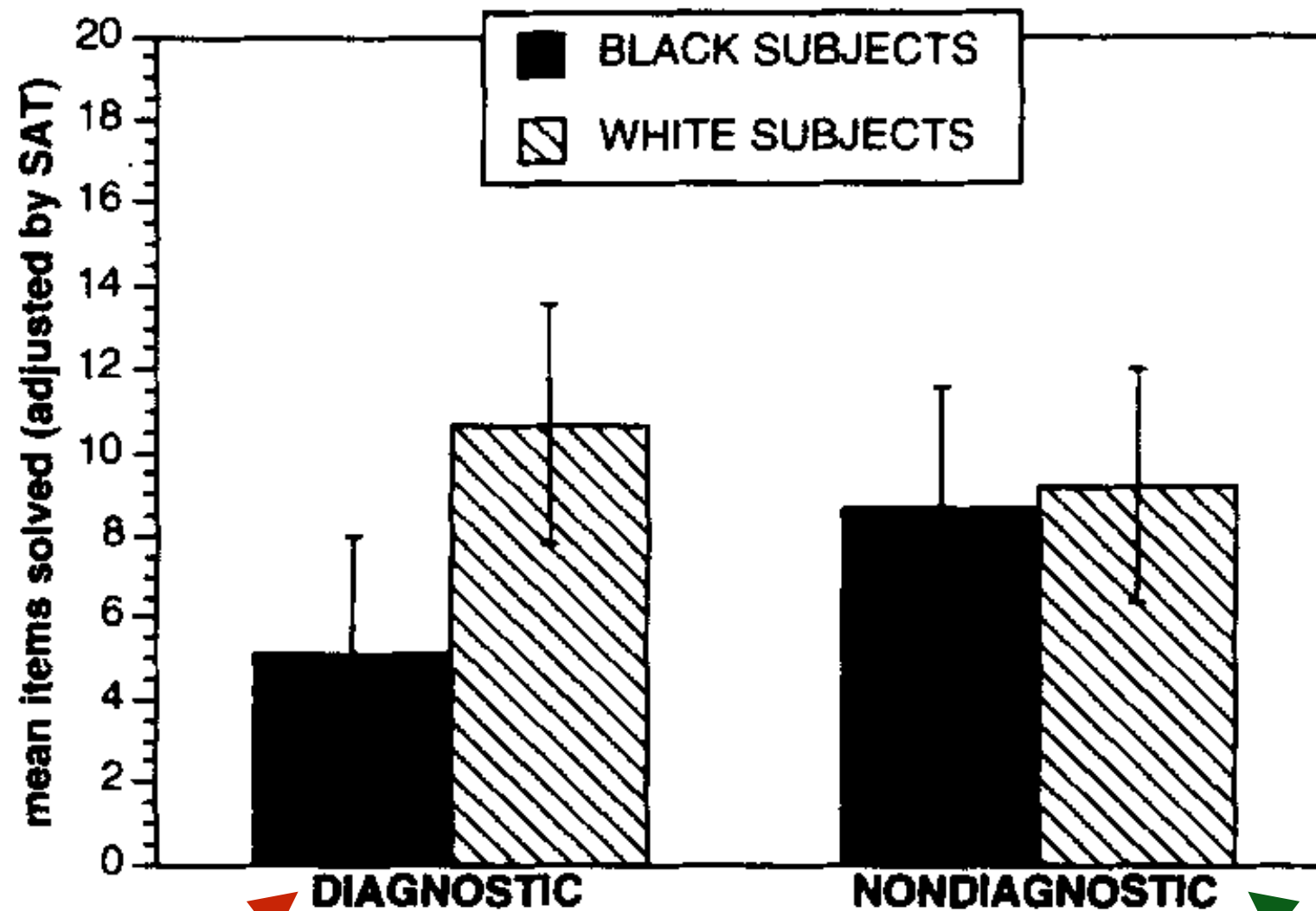
Systemic Factors Contributing to Failure to Achieve Equity

Stereotype Threat

Stereotype threat is the social-psychological predicament in which one fears their actions may reinforce widely-known negative stereotypes about one's group

(paraphrased from Steele & Aronson 1995)

Stereotype Threat



Steele &
Aronson 1995

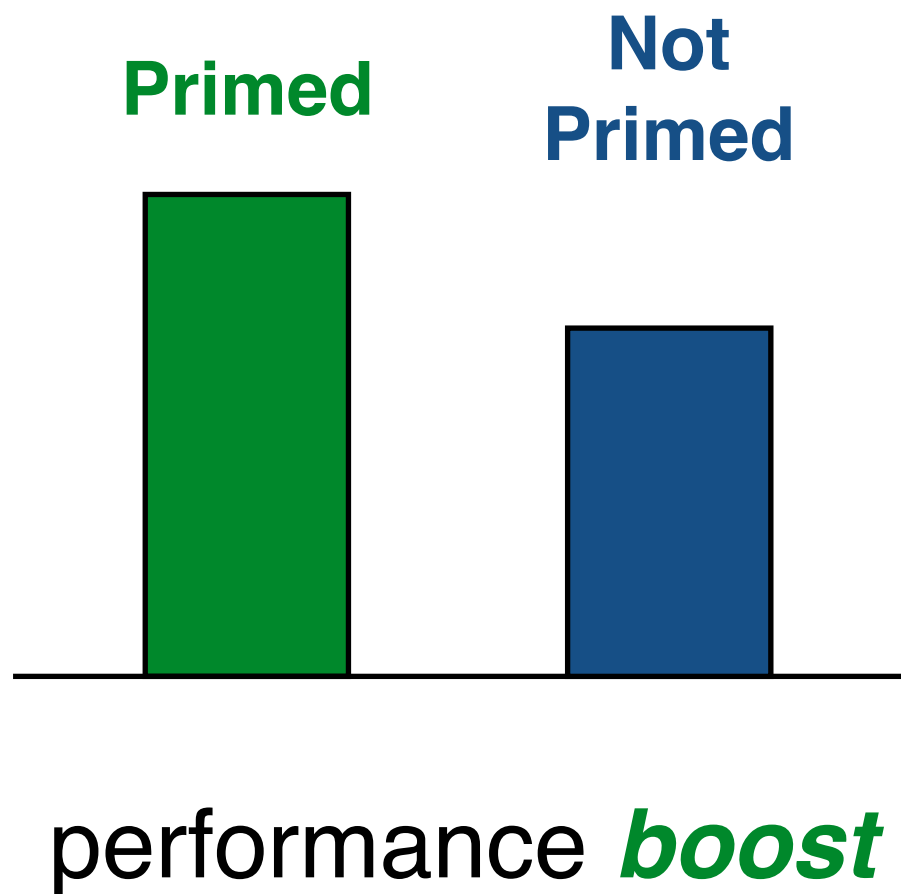
**Tell students:
“We’re testing how
smart you are.”**

**Tell students: “We’re
testing how students
solve problems.”**

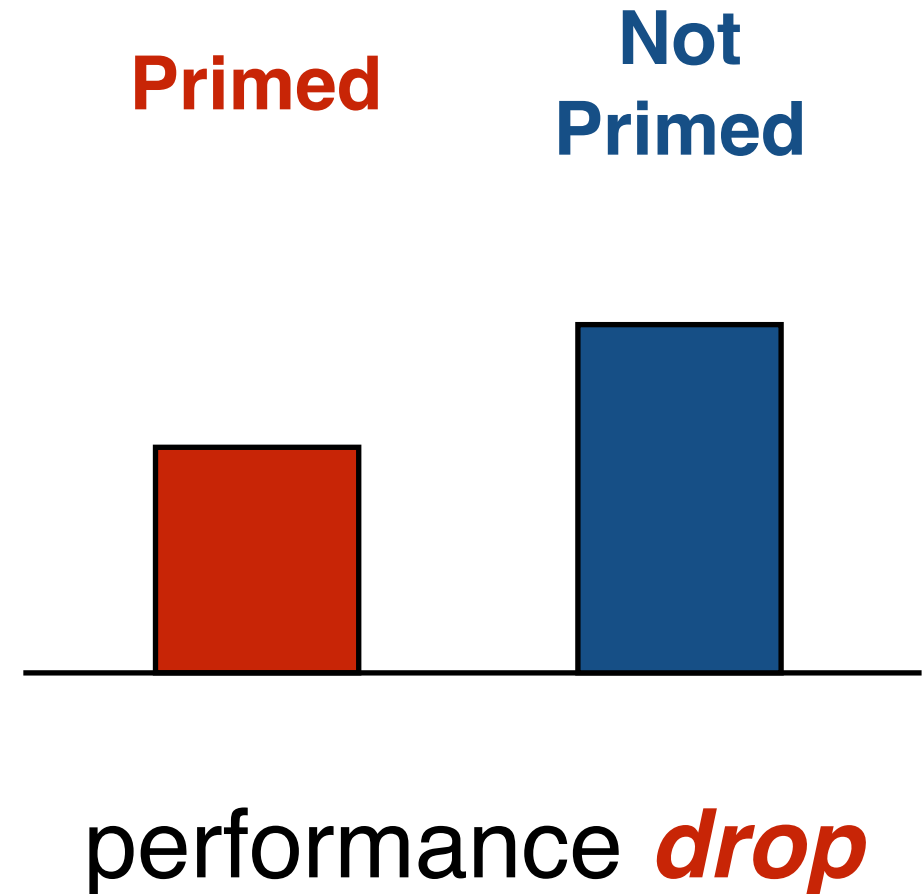
Stereotype Threat

Groups of Asian-American female students were:

(a) reminded of their **Asian heritage**



(b) reminded of their **female gender**



Shih, Pittinsky, & Amady 1999

Stereotype Threat

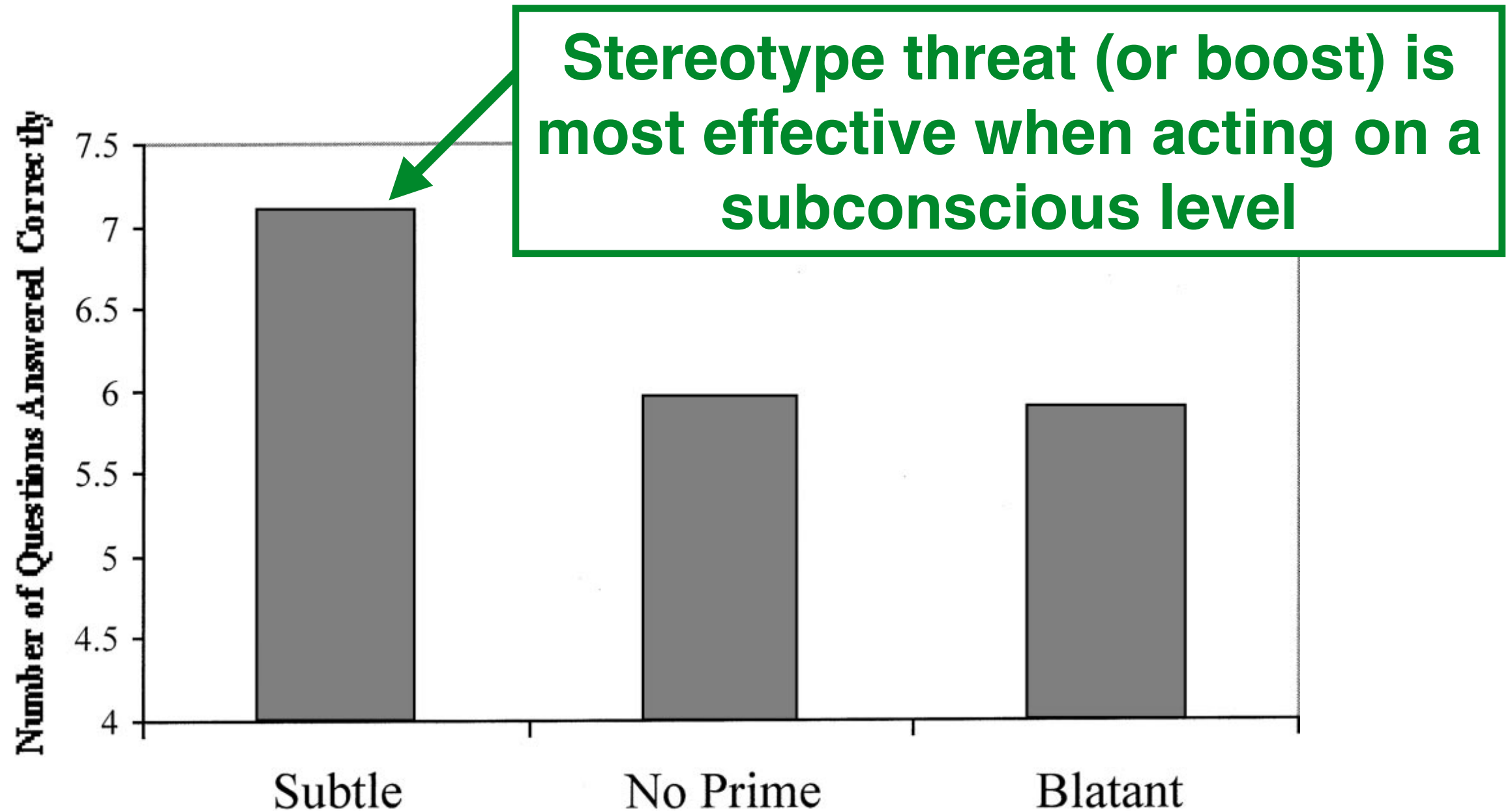
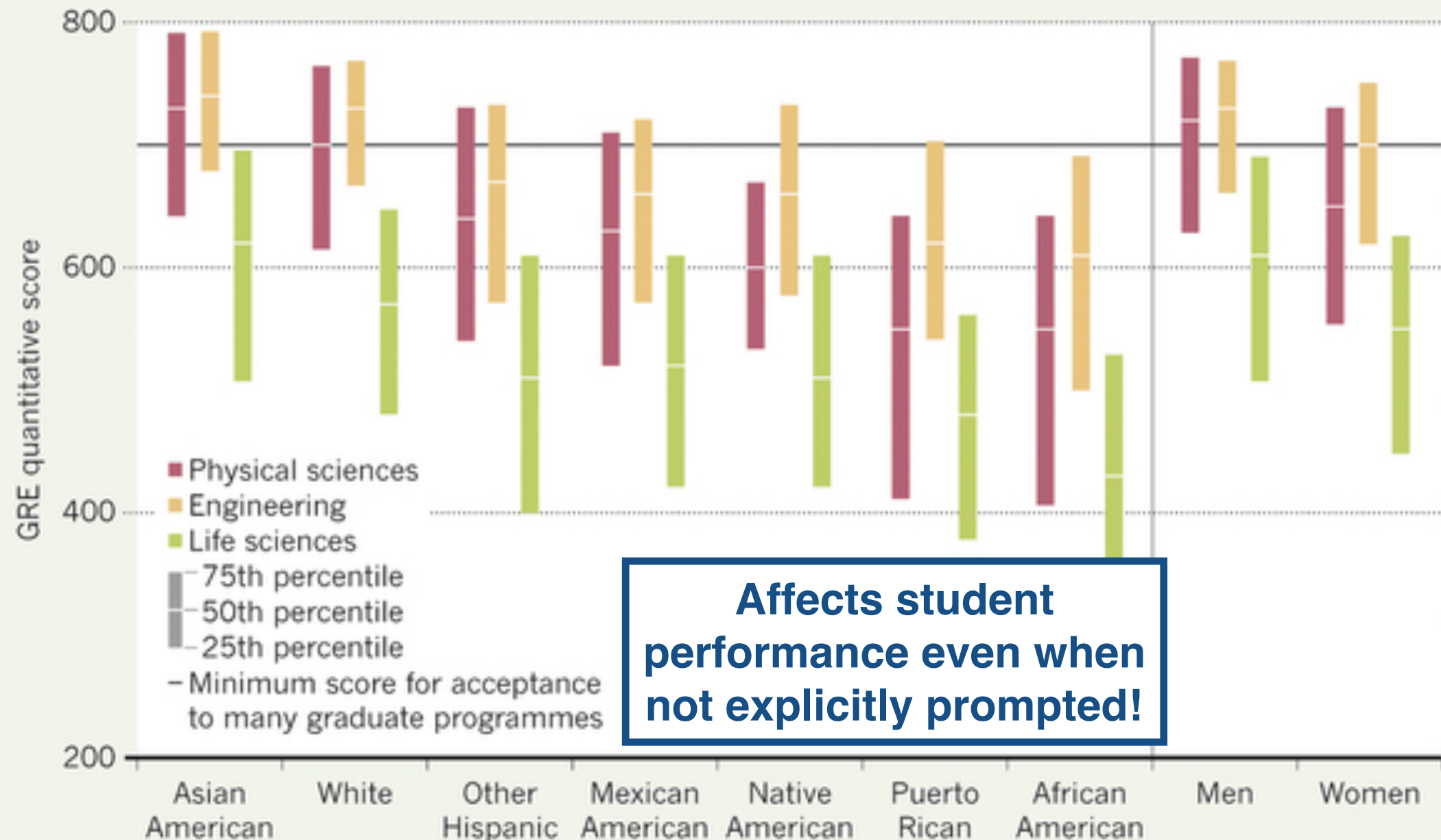


Figure 1. Study 1: Asian American's math test performance following stereotype activation.

Stereotype Threat

THE GREAT DIVIDE

The data represent the scores typically achieved in the quantitative reasoning test of the graduate record examinations (GRE) by US students from different ethnic groups applying for graduate school. In the physical sciences, a minimum score of 700 is required by many PhD programmes.

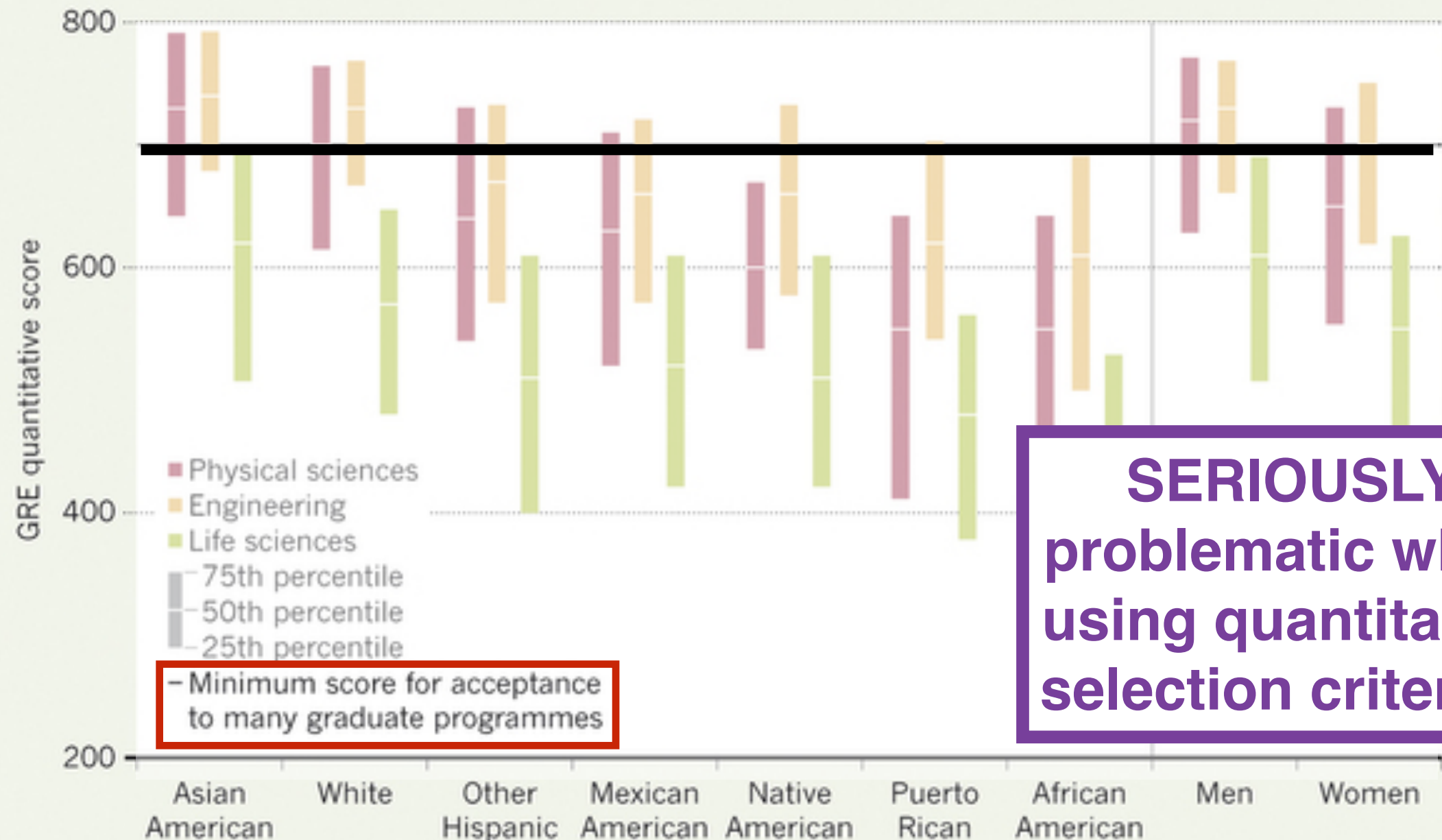


Affects student performance even when not explicitly prompted!

Stereotype Threat

THE GREAT DIVIDE

The data represent the scores typically achieved in the quantitative reasoning test of the graduate record examinations (GRE) by US students from different ethnic groups applying for graduate school. In the physical sciences, a minimum score of 700 is required by many PhD programmes.



SERIOUSLY
problematic when
using quantitative
selection criteria!!

Brief Summaries:

Privilege

Micro-aggressions

Mansplaining

Gaslighting

(White / Male / Cis / Hetero / Ableist) **Privilege**

Privilege, at its core, is the advantages that people benefit from based solely on their social status.

It is a status that is conferred by society to certain groups, not seized by individuals, which is why it can be difficult sometimes to see one's own privilege.

(White / Male / Cis / Hetero / Ableist) **Privilege**

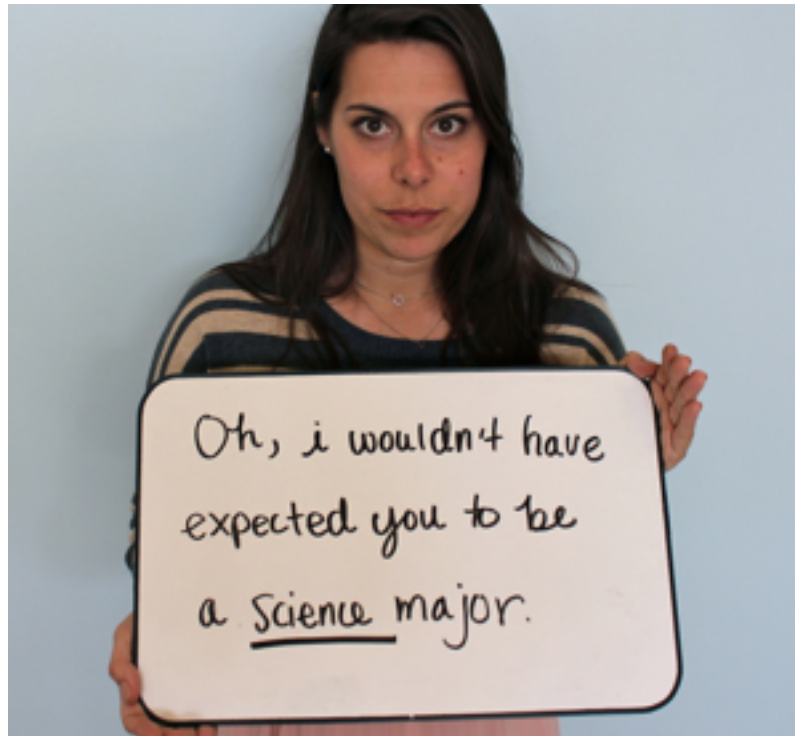
“Privilege is like an ***invisible backpack*** full of unearned assets that I can count on cashing in each day, but about which I was meant to remain oblivious.” — Dr. Peggy McIntosh



**Which backpack gets handed
to you will determine how
easy the journey is for you!**

(thanks to Dr. Katie Schlesinger for sharing this analogy)

Micro-Aggressions



Microaggression:
"social exchanges in which a member of a dominant culture says or does something, often accidentally, and without intended malice, that belittles and alienates a member of a marginalized group."



Mansplaining



Gaslighting

(a.k.a. blame the victim)

You're crazy—that never happened.

You're so sensitive.

You're overreacting.

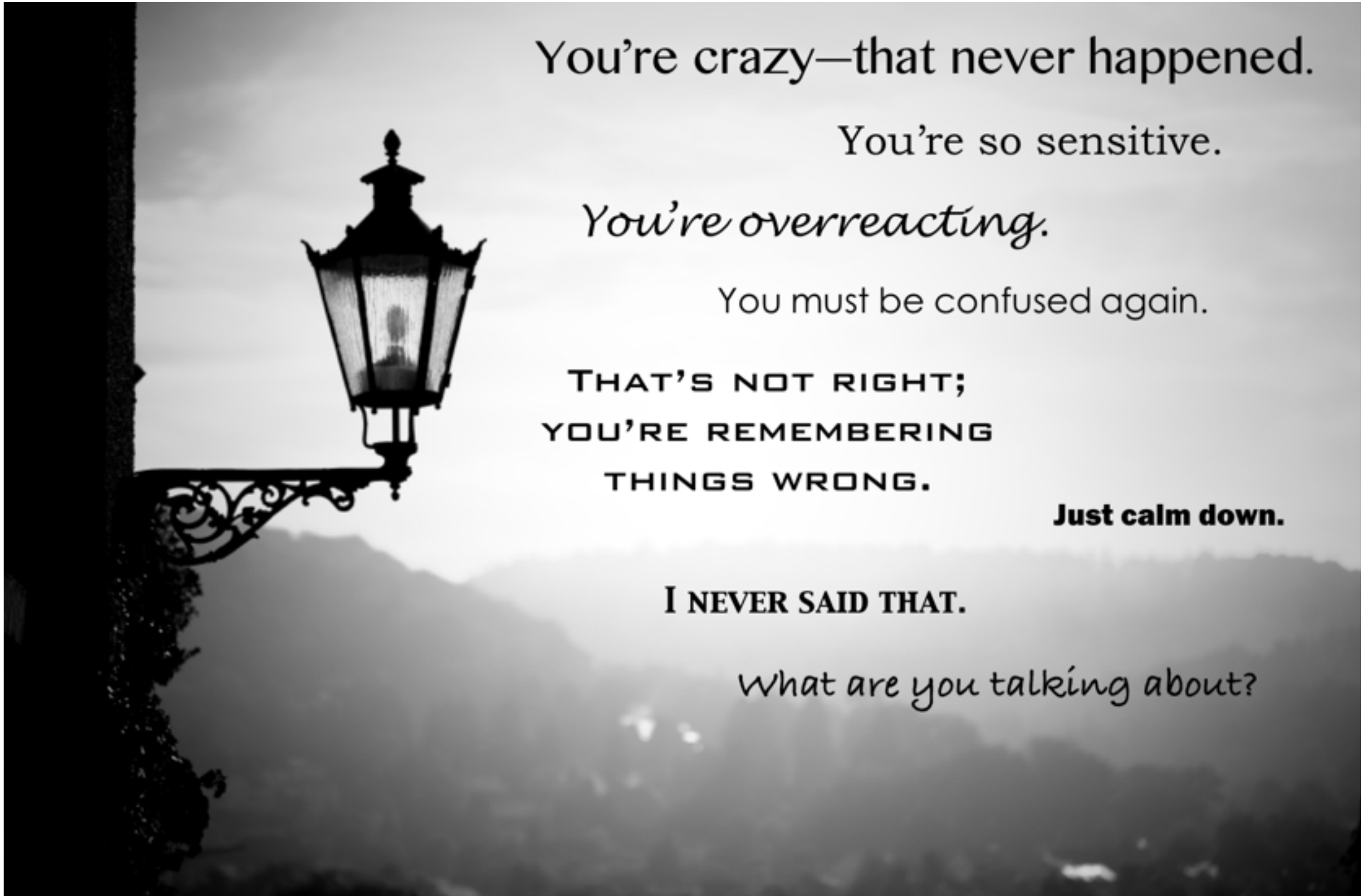
You must be confused again.

THAT'S NOT RIGHT;
YOU'RE REMEMBERING
THINGS WRONG.

Just calm down.

I NEVER SAID THAT.

What are you talking about?



Unconscious Bias

**Unconscious bias (or “implicit bias”)
is a positive or negative mental
attitude towards a person, thing, or
group that a person holds at an
subconscious level.**

(definition from Stanford Medical School)

Mary and Jeff: an unconscious bias case study

Mary and Jeff are both PhD students, and both recently published a paper on the high-profile object Star X

Mary



Jeff



Mary and Jeff give back-to-back contributed talks about Star X at a popular conference

In the audience for Mary and Jeff's talks is Professor Nigel,
a prestigious prize-winning senior scientist

Mary

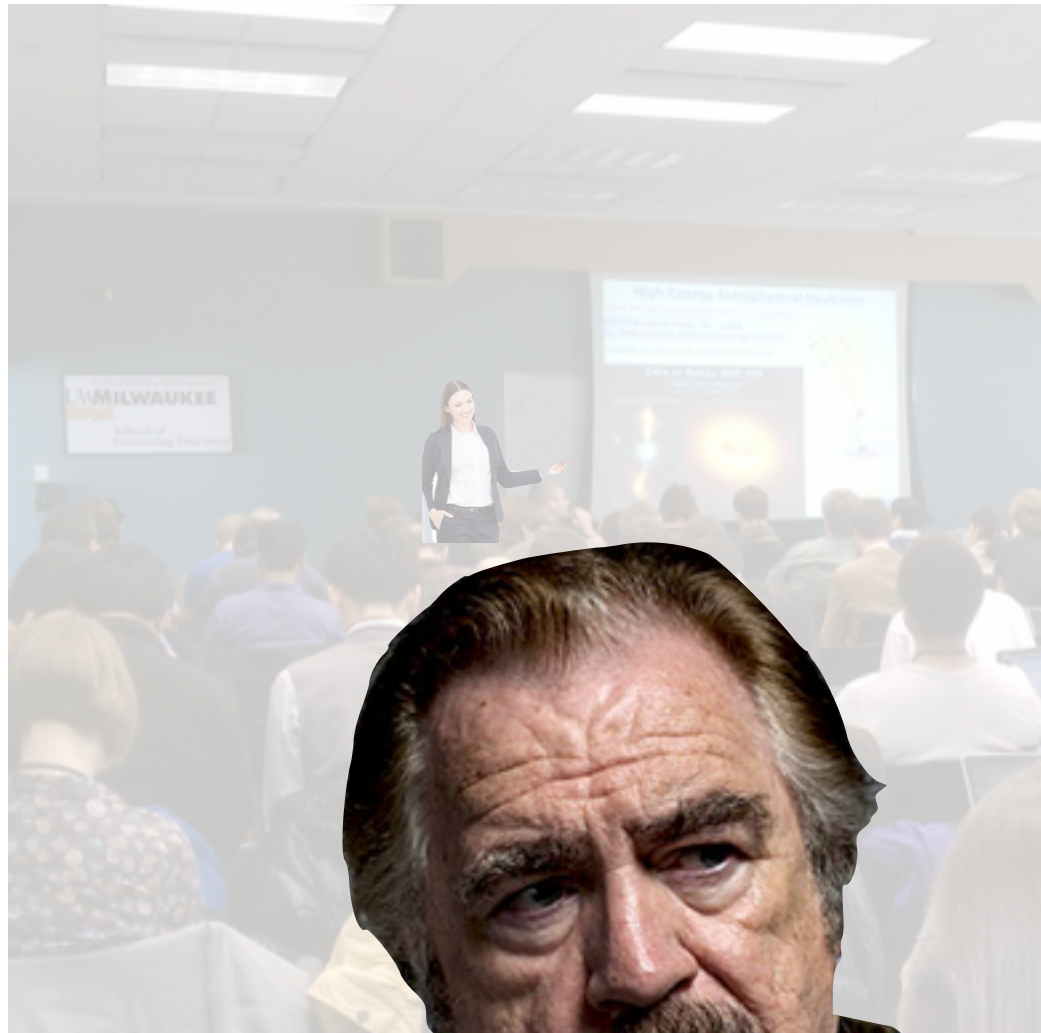


Jeff



Professor Nigel has never realised it, but he has a subtle
unconscious bias against women scientists

Professor Nigel leaves the conference thinking
“Wow that Star X sure is interesting, and Jeff
gave a great talk about it”



Professor Nigel leaves the conference thinking
“Wow that Star X sure is interesting, and Jeff
gave a great talk about it”

In his next invited
review paper,
Professor Nigel
cites Jeff’s paper
about Star X,
but not Mary’s



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www.nature.com/nature

Amazing Stars!!!

by Prof. Nigel



Geneticists spent more than a decade getting their first complete reading of the 3 billion base pairs of the human genome, which they finally published in 2003. But today's rapid sequencing machines can run through that much DNA in a week, and are busily churning out multiple sequences from an ever-expanding list of species. Meanwhile, astronomers working with the Sloan Digital Sky Survey telescope in New Mexico have mapped some 25% of the sky since 2000, obtaining data on more than 200 million objects. The Large Synoptic Survey Telescope, scheduled for completion atop Chile's Cerro Pachón in 2015, will gather that much data in one night.

Statistics tell a similar story in many scientific fields. This is great news for research: data glut is always better than data famine. But it is also cause for concern, because investigators' ability to amass huge quantities of data has accelerated much faster than have policies and

their fields, and institutions should ensure that training is in place to make this possible.

The access principle asserts the value of openness: only if results are shared can other researchers check the data's accuracy, verify analyses and build on previous work. So unless there are very good reasons for researchers to withhold data — reasons that should be publicly posted and available for comment by other researchers — they should make provisions to supply public access in a timely manner, possibly as early as their grant proposals.

Finally, the stewardship principle addresses the need for long-term preservation. Scientific societies and communities need to provide guidelines on which data are worth retaining for future analysis; institutions and funding agencies need to address and support these needs. Journals can

“Each researcher is ultimately responsible for ensuring the truth and accuracy of the data he or she produces.”



References:

Jeff et al.



Professor Nigel leaves the conference thinking
“Wow that Star X sure is interesting, and Jeff
gave a great talk about it”



When Professor Nigel gives invited review talks
around the world, he adds a new slide about Star X
with a figure from Jeff's paper (not Mary's)

3 years later...

Jeff and Mary have finished their PhDs and are both applying for a prestigious fellowship at Y University

The fellowship selection committees looks at their CVs and the following comments are heard:

“Well Mary seems nice but her paper only has 20 citations, while Jeff’s paper on the same object has 50 citations.”

“Ah yes I remember hearing about Jeff’s work on Star X during a talk by Professor Nigel.”

Jeff is awarded the fellowship

5 more years later...

Jeff and Mary are now both applying for permanent academic positions

Jeff has had 5 years of self-driven research afforded by having his fellowship. He has written 8 papers and has travelled to every major conference on his research topic. Jeff now has an h-index of 25.

Mary has had two different postdoc positions in the same time, both of which have required her to move to a different continent. These positions also have had a heavy “service” load to support an existing project, leaving less time for science or conference travel. Mary has written 3 papers and has an h-index of 15.

You can guess the hiring outcomes that follow...

“Surely Professor Nigel can’t be the sole cause of Mary’s lesser success.”

Mary

Prestige = $1 - \epsilon$



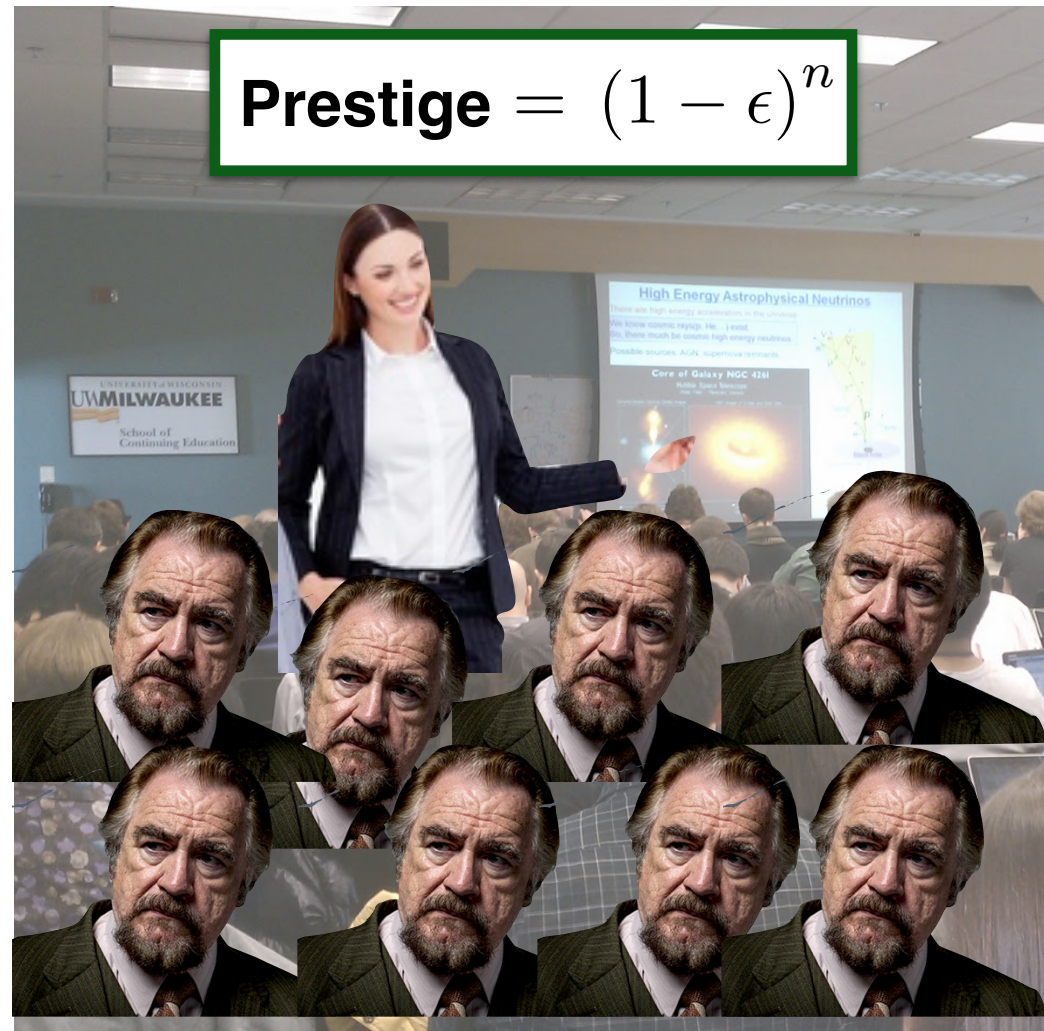
Jeff

Prestige = 1



“Surely Professor Nigel can’t be the sole cause of Mary’s lesser success.”

Mary



Jeff



No ... but conferences full of Professor Nigels...
group meetings, journal clubs full of Nigels...
time allocation committees with Nigels...

Unconscious Bias

What can you do?
Start by understanding
your own implicit biases:

Good way to check yourself:

Harvard's implicit
assumptions tests

implicit.harvard.edu



The screenshot shows the Project Implicit website interface. At the top is the Project Implicit logo and a navigation bar with links: LOG IN, TAKE A TEST, ABOUT US, EDUCATION, HELP, and CONTACT US. Below the navigation bar is a list of 15 implicit bias tests, each with a blue button and a description.

Test Name	Description
Skin-tone IAT	Skin-tone ('Light Skin - Dark Skin' IAT). This IAT requires the ability to recognize light and dark-skinned faces. It often reveals an automatic preference for light-skin relative to dark-skin.
Gender-Career IAT	Gender - Career. This IAT often reveals a relative link between family and females and between career and males.
Sexuality IAT	Sexuality ('Gay - Straight' IAT). This IAT requires the ability to distinguish words and symbols representing gay and straight people. It often reveals an automatic preference for straight relative to gay people.
Weapons IAT	Weapons ('Weapons - Harmless Objects' IAT). This IAT requires the ability to recognize White and Black faces, and images of weapons or harmless objects.
Native IAT	Native American ('Native - White American' IAT). This IAT requires the ability to recognize White and Native American faces in either classic or modern dress, and the names of places that are either American or Foreign in origin.
Presidents IAT	Presidents ('Presidential Popularity' IAT). This IAT requires the ability to recognize photos of Barack Obama and one or more previous presidents.
Religion IAT	Religion ('Religions' IAT). This IAT requires some familiarity with religious terms from various world religions.
Disability IAT	Disability ('Disabled - Abled' IAT). This IAT requires the ability to recognize symbols representing abled and disabled individuals.
Gender-Science IAT	Gender - Science. This IAT often reveals a relative link between liberal arts and females and between science and males.
Race IAT	Race ('Black - White' IAT). This IAT requires the ability to distinguish faces of European and African origin. It indicates that most Americans have an automatic preference for white over black.
Arab-Muslim IAT	Arab-Muslim ('Arab Muslim - Other People' IAT). This IAT requires the ability to distinguish names that are likely to belong to Arab-Muslims versus people of other nationalities or religions.
Weight IAT	Weight ('Fat - Thin' IAT). This IAT requires the ability to distinguish faces of people who are obese and people who are thin. It often reveals an automatic preference for thin people relative to fat people.
Asian IAT	Asian American ('Asian - European American' IAT). This IAT requires the ability to recognize White and Asian-American faces, and images of places that are either American or Foreign in origin.
Age IAT	Age ('Young - Old' IAT). This IAT requires the ability to distinguish old from young faces. This test often indicates that Americans have automatic preference for young over old.

Copyright © Project Implicit

Unconscious Bias

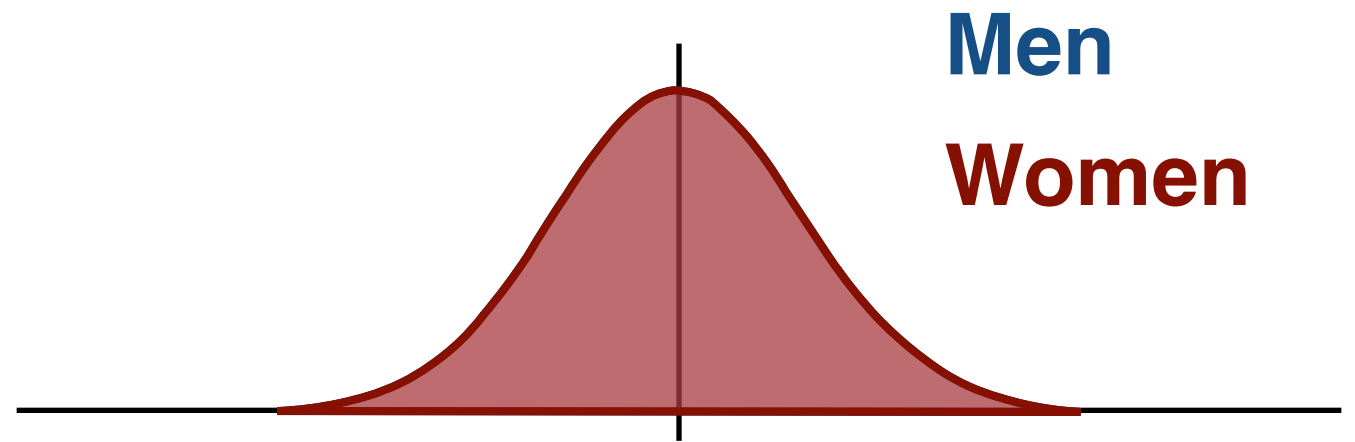
Your unconscious biases are NOT a reflection on your chosen values!!!

This just tells you how your **animal brain** is programmed to respond to people who appear different than you!

The best way to apply corrective measures is to first *be informed!*

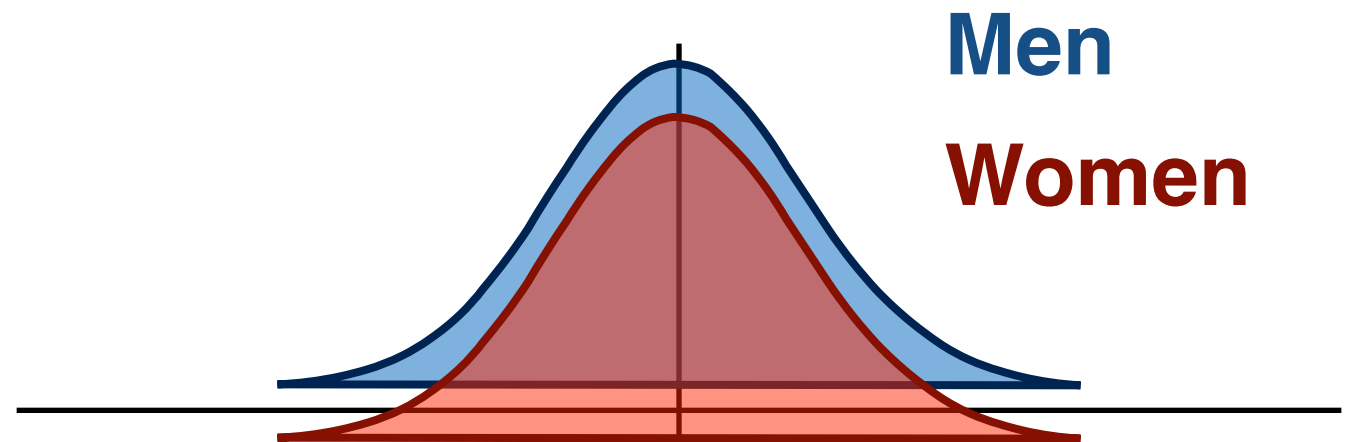
What is the net outcome on our demographics?

**Intrinsic
Aptitude**



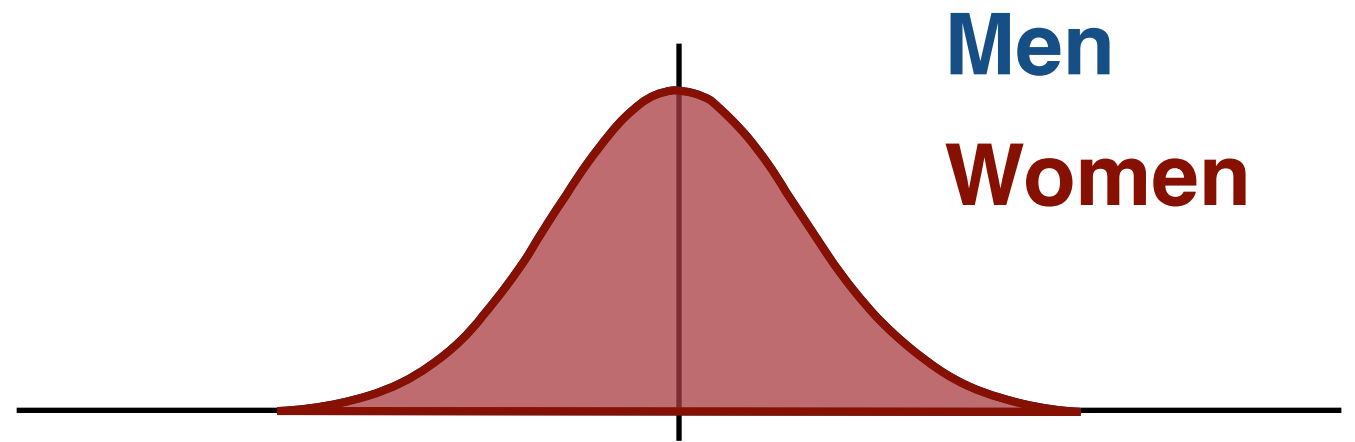
What is the net outcome on our demographics?

**Intrinsic
Aptitude**



What is the net outcome on our demographics?

**Intrinsic
Aptitude**

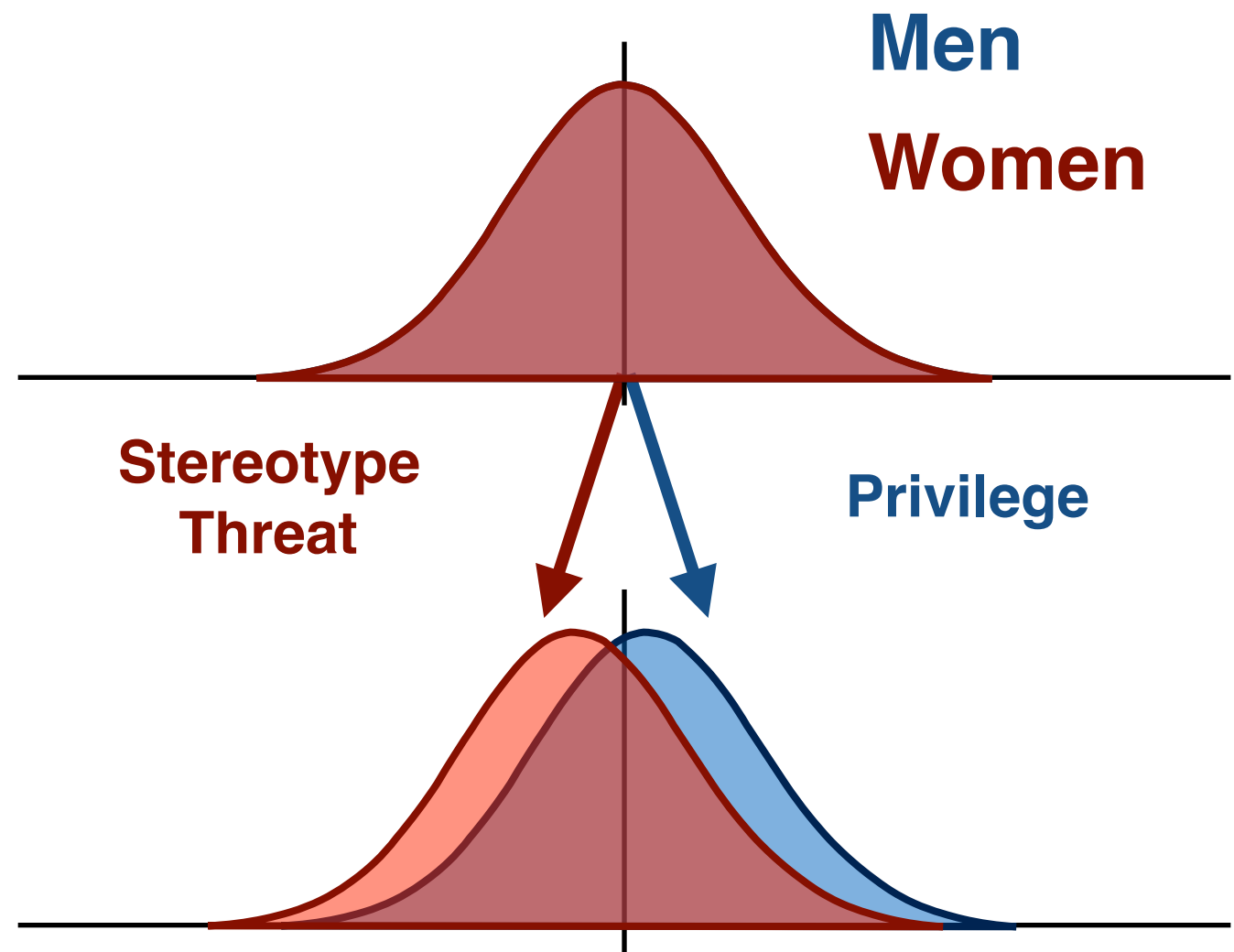


What is the net outcome on our demographics?

**Intrinsic
Aptitude**

**Performance
Outcomes**

(e.g. # papers)



(or performance on standardised tests)

What is the net outcome on our demographics?

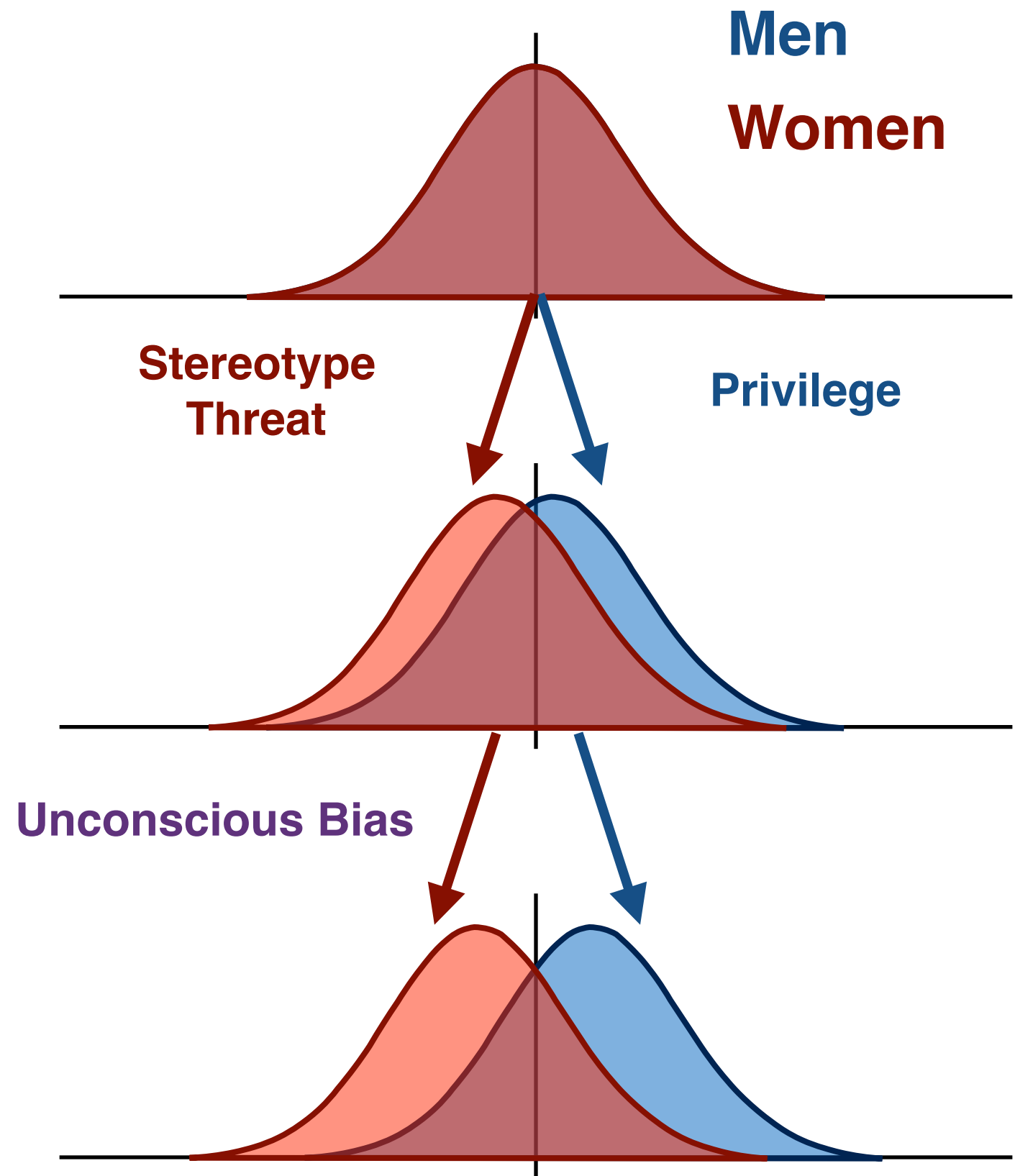
**Intrinsic
Aptitude**

**Performance
Outcomes**

(e.g. # papers)

**Esteem
Metrics**

(e.g. # citations)



What is the net outcome on our demographics?

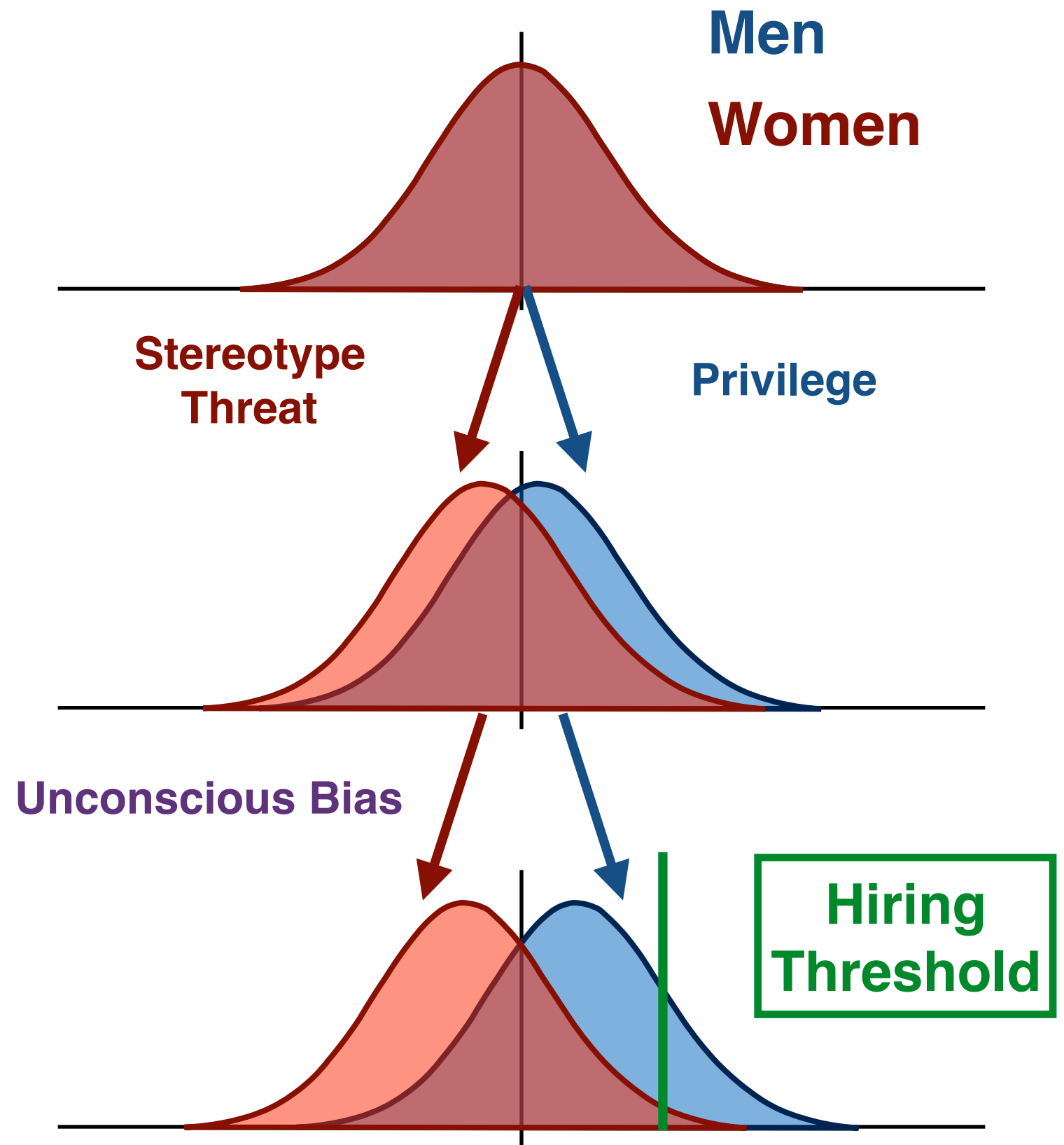
**Intrinsic
Aptitude**

**Performance
Outcomes**

(e.g. # papers)

**Esteem
Metrics**

(e.g. # citations)



What can you do to make things better?

Unconscious bias awareness can decrease its impact!

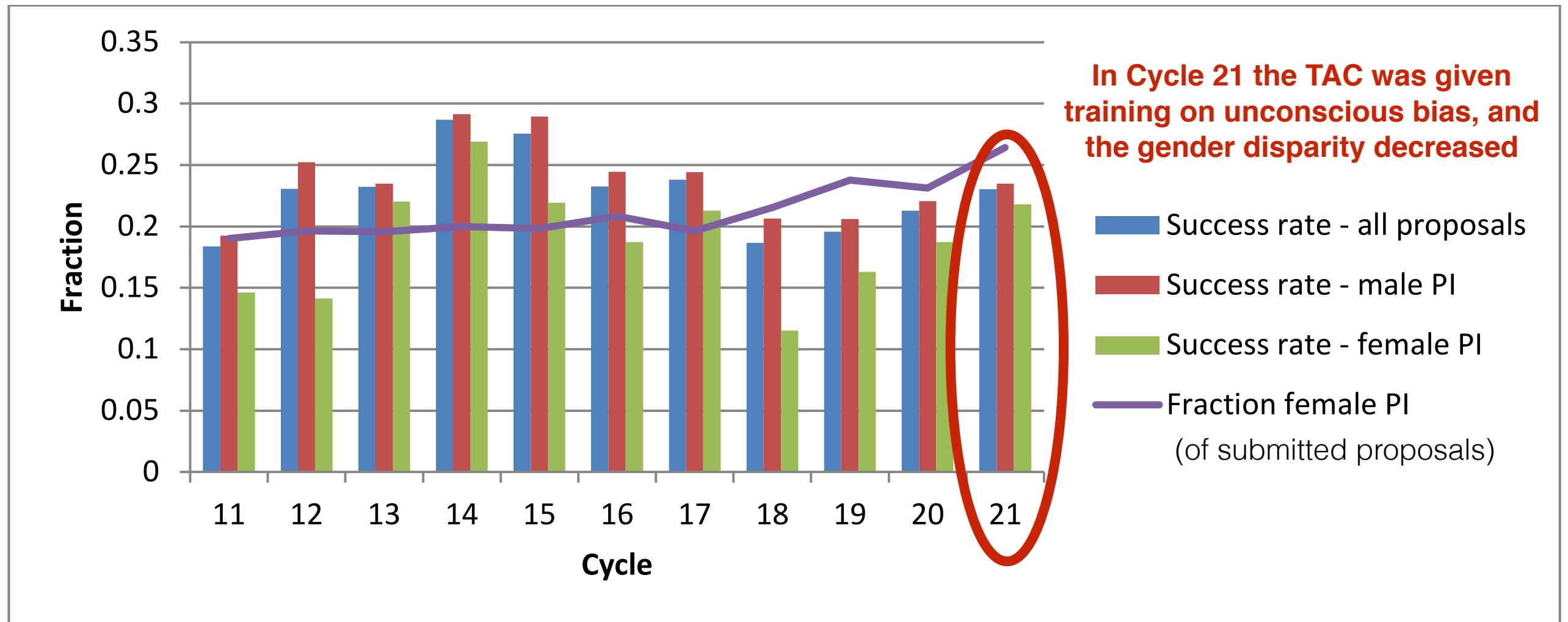
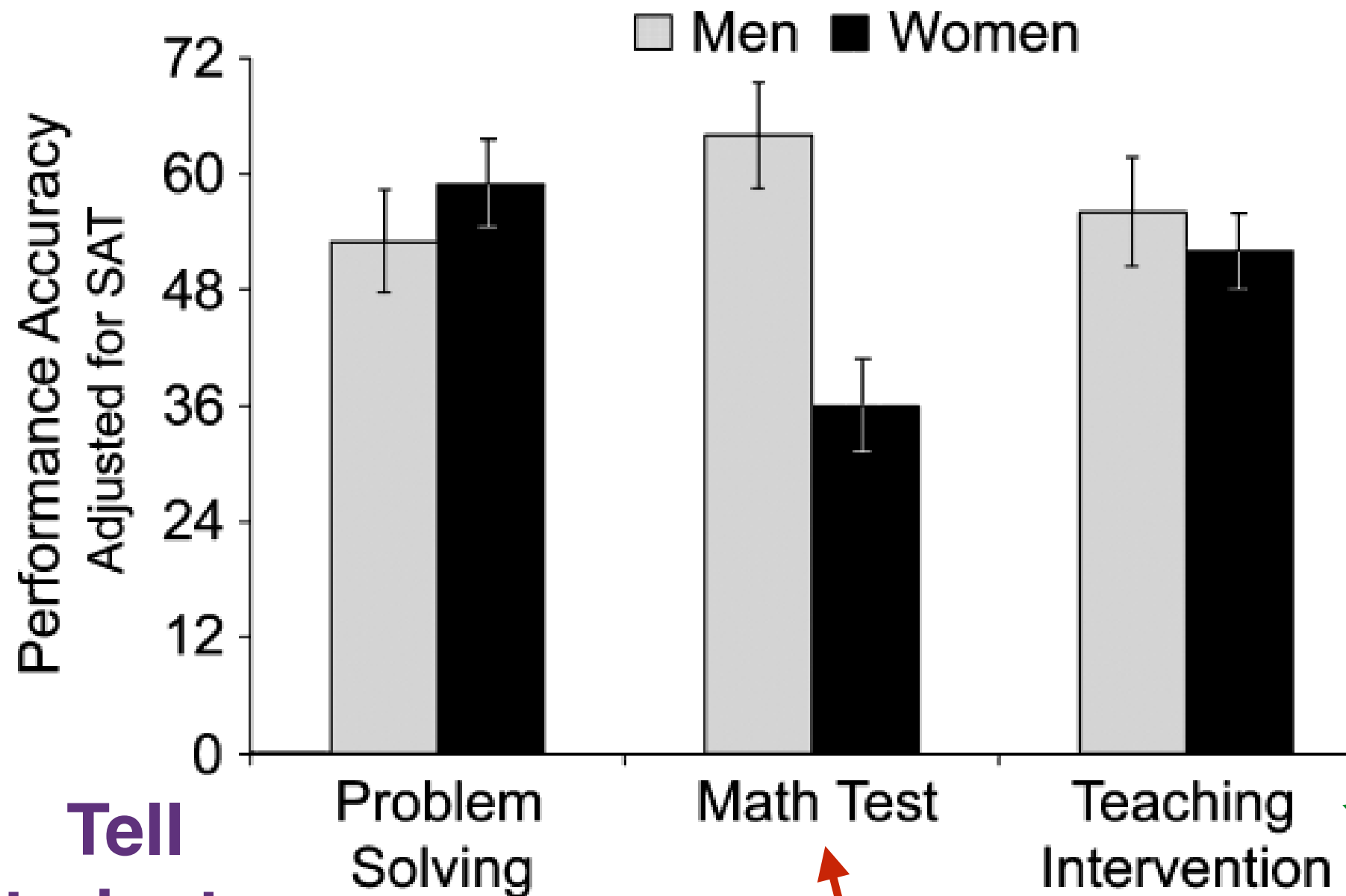


Figure 1: Statistics on the success rate of HST proposals for Cycles 11 through 21. The histograms show the success rates for all proposals, proposals with a male PI and proposals with a female PI; in each case, the statistics encompass all types of proposal (GO, SNAP, AR). The line shows the fraction of submitted proposals with female PIs in each cycle.

What can you do to make things better?

Stereotype threat awareness can decrease its impact!



Johns et al. 2005

Tell students:

↑
“We’re testing problem-solving techniques.”

↑
“We’re testing gender differences in math ability.”

← “We’re testing gender differences, but hey there’s this thing called stereotype threat...”

What is the net outcome on our demographics?

**Intrinsic
Aptitude**

Men

Women

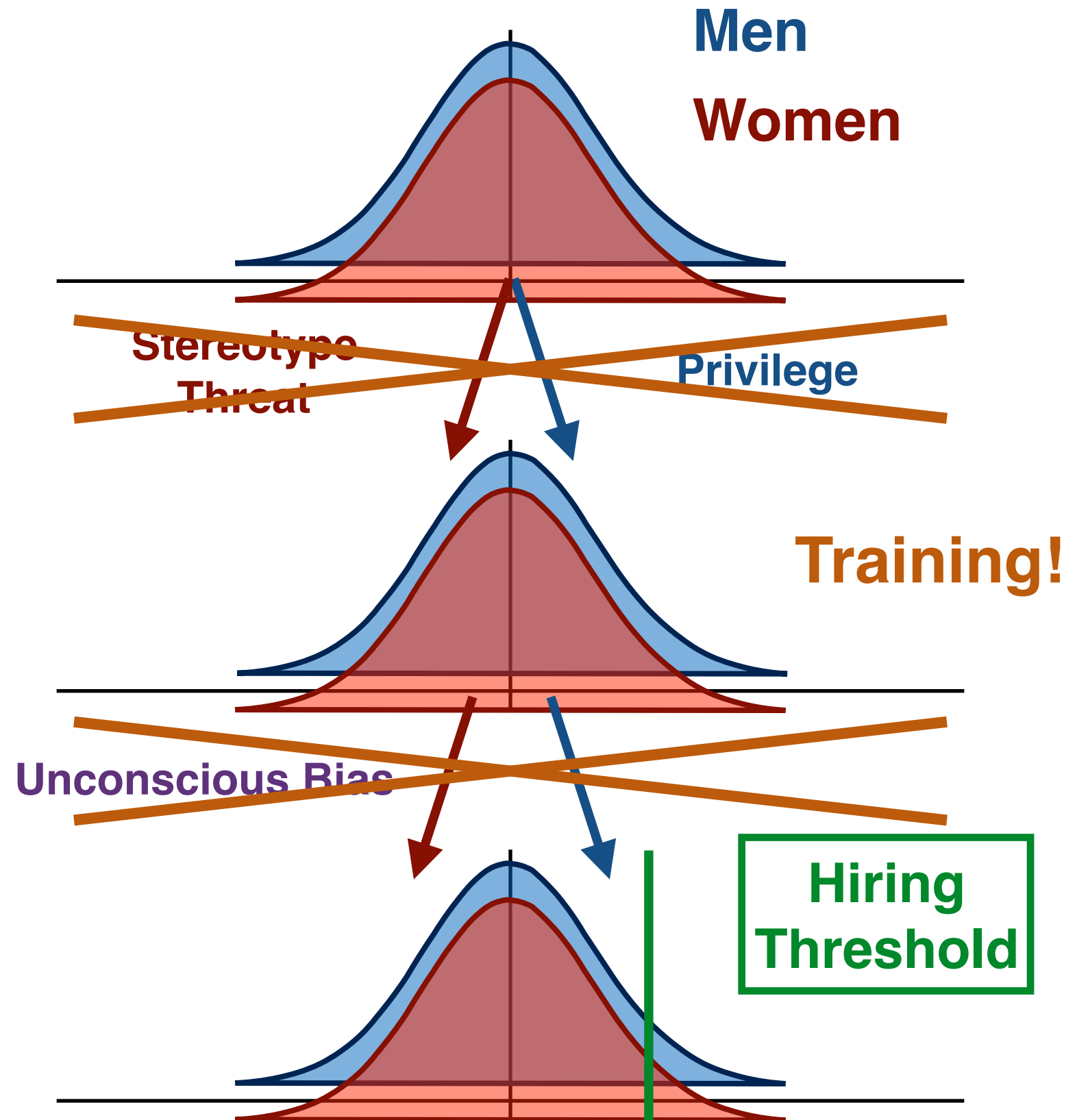
**Performance
Outcomes**

(e.g. # papers)

Training!

**Esteem
Metrics**

(e.g. # citations)

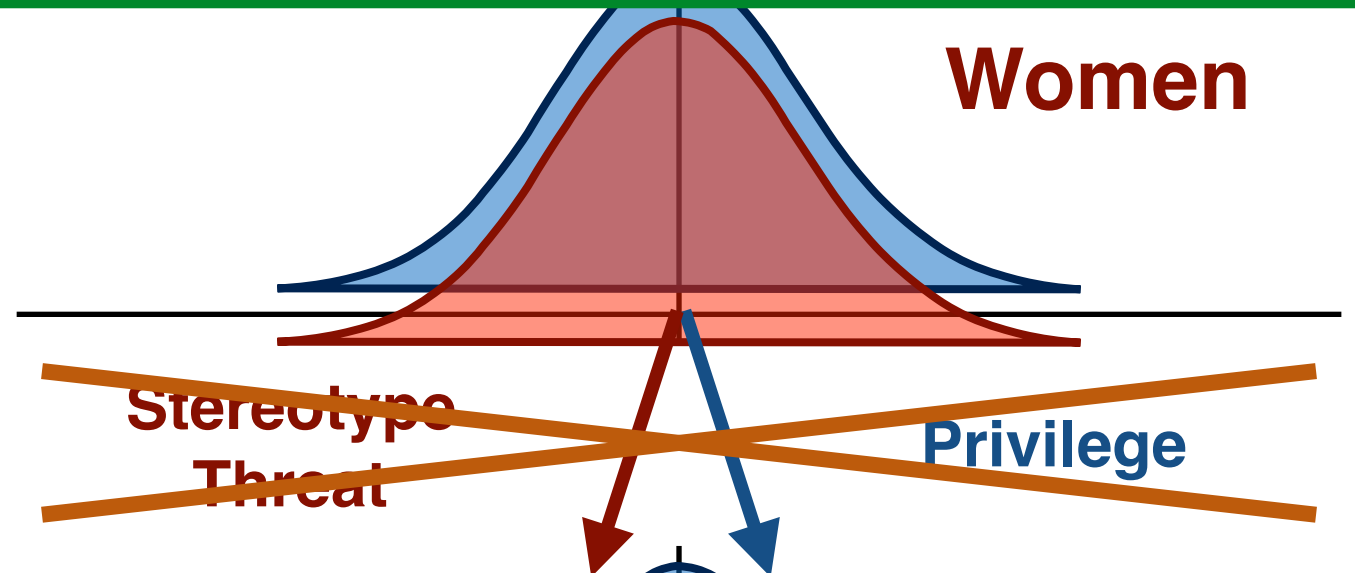


Ideal Version!!

New Flash: this will NEVER happen perfectly!!

**Intrinsic
Aptitude**

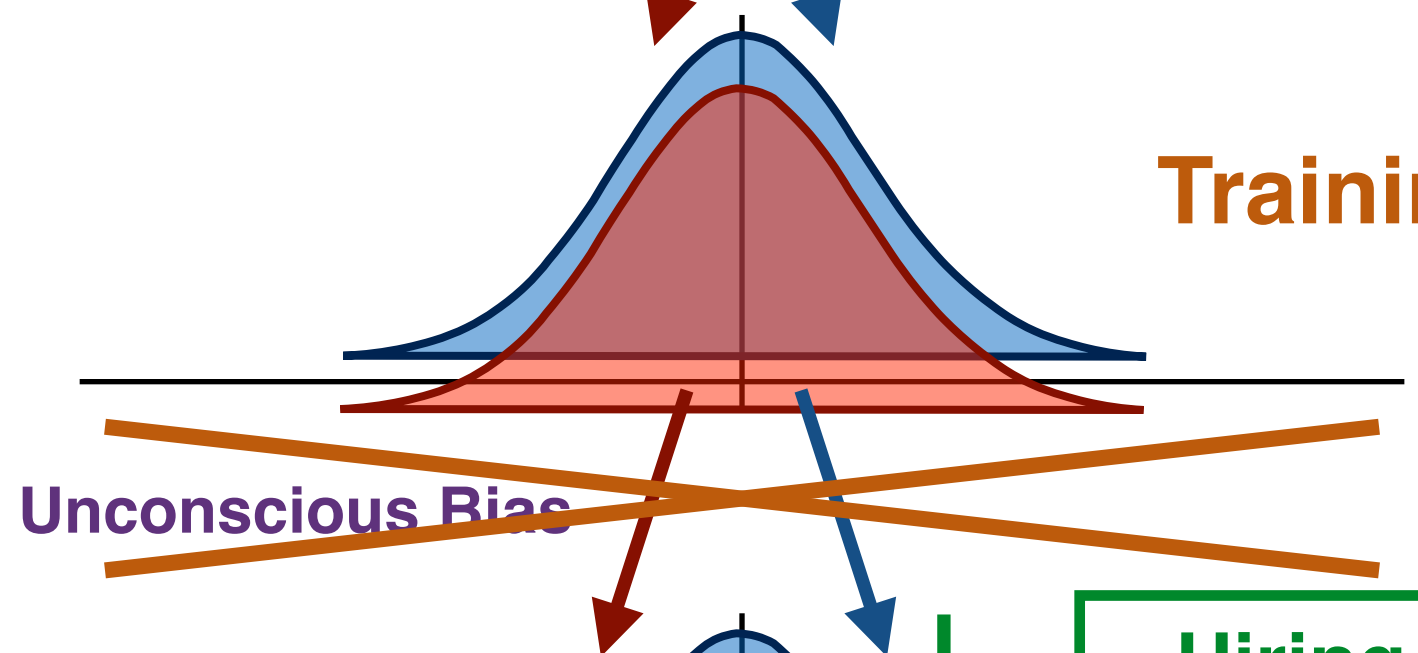
Women



**Performance
Outcomes**

(e.g. # papers)

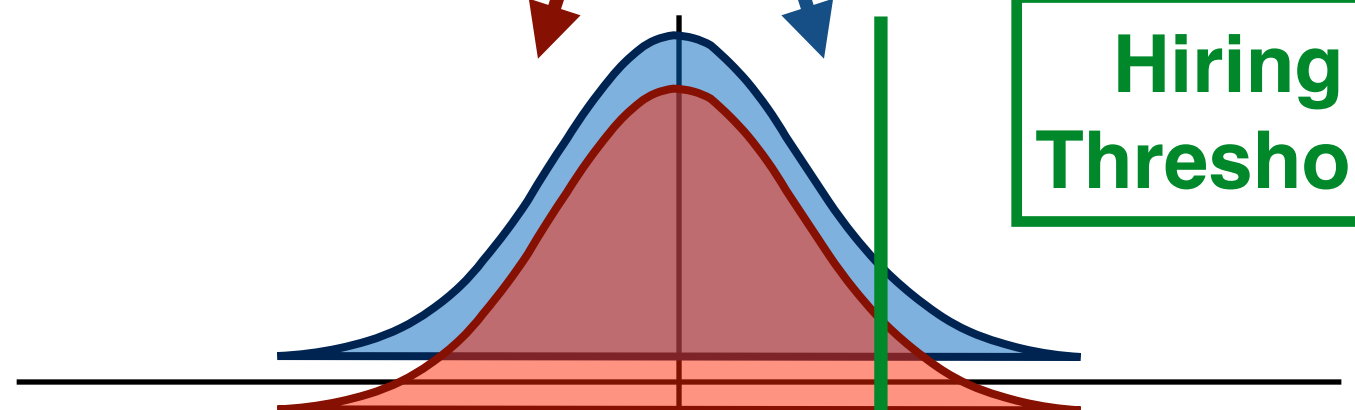
Training!



**Esteem
Metrics**

(e.g. # citations)

**Hiring
Threshold**



A more realistic hope:

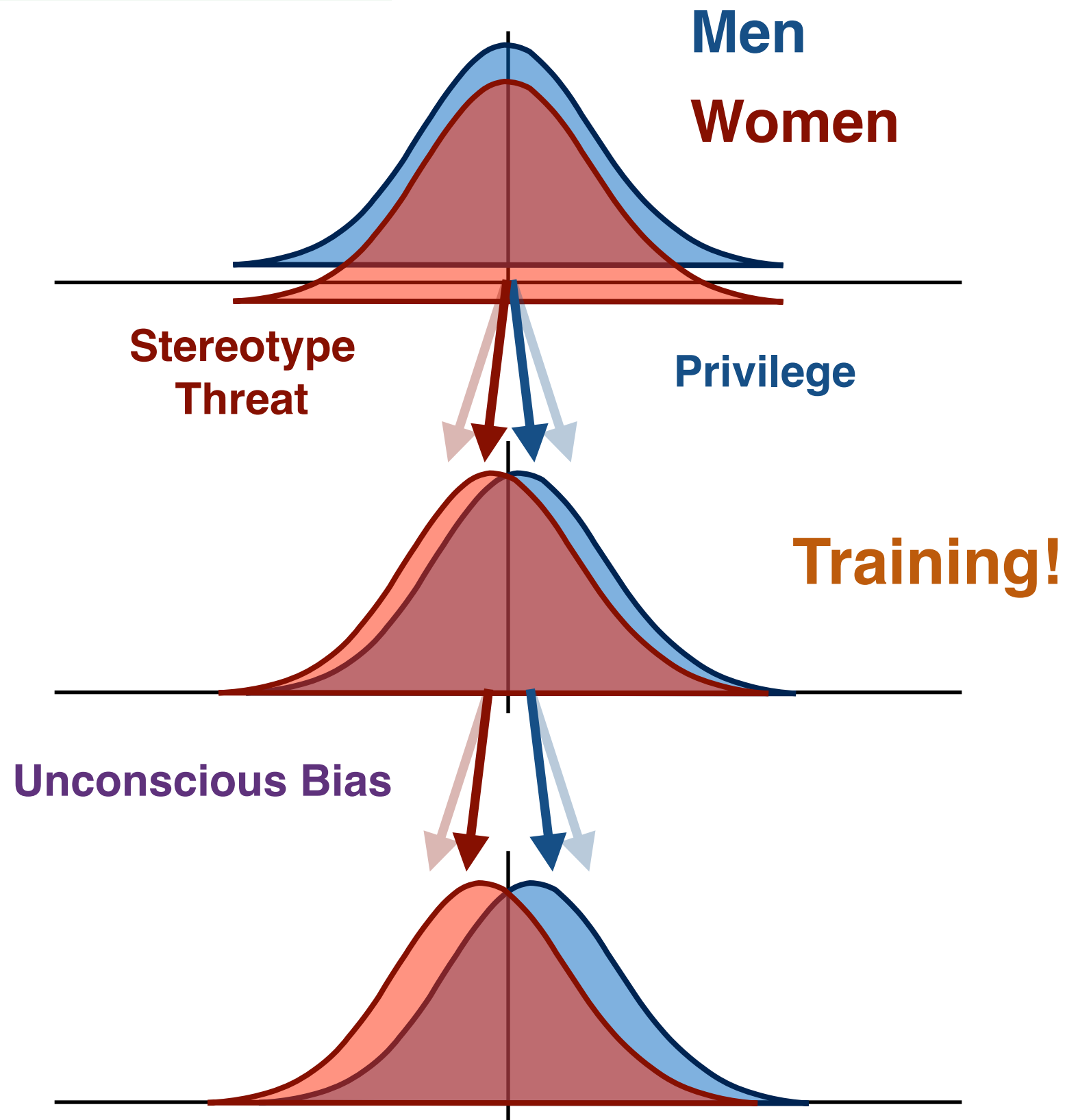
**Intrinsic
Aptitude**

**Performance
Outcomes**

(e.g. # papers)

**Esteem
Metrics**

(e.g. # citations)



A more realistic hope:

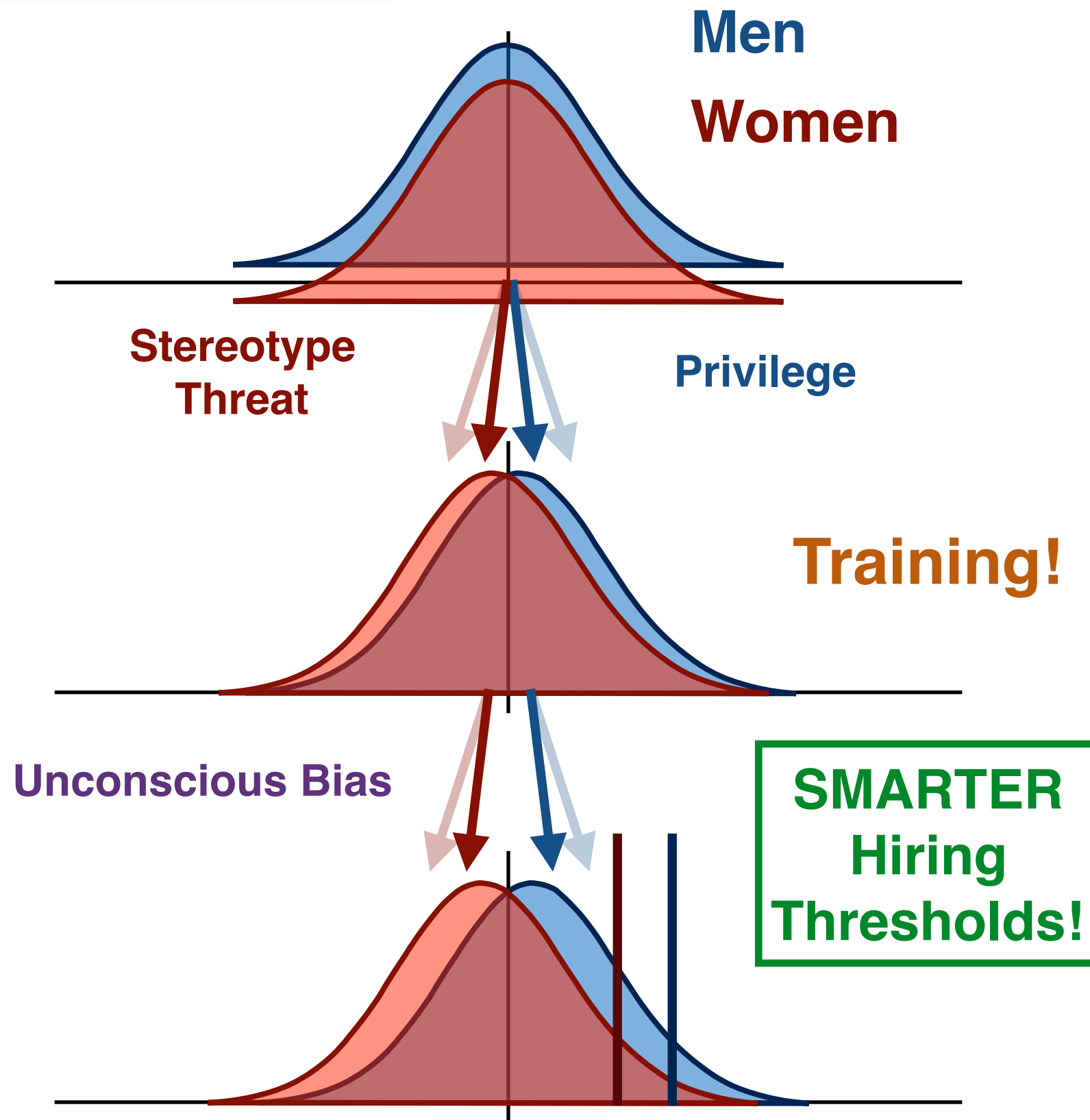
**Intrinsic
Aptitude**

**Performance
Outcomes**

(e.g. # papers)

**Esteem
Metrics**

(e.g. # citations)



Harassment

Higher
education

Sexual harassment 'at epidemic levels' in UK universities

Exclusive: Almost 300 claims against staff have been made in six years, but victims and lawyers say those are just tip of iceberg



439

David Batty, Sally
Weale and
Caroline Bannock

Sunday 5 March 2017
18.00 GMT



i Oxford University reported the highest number of staff-on-student and staff-on-staff allegations. Photograph: Pete Lusabia/Alamy Stock Photo



Harassment

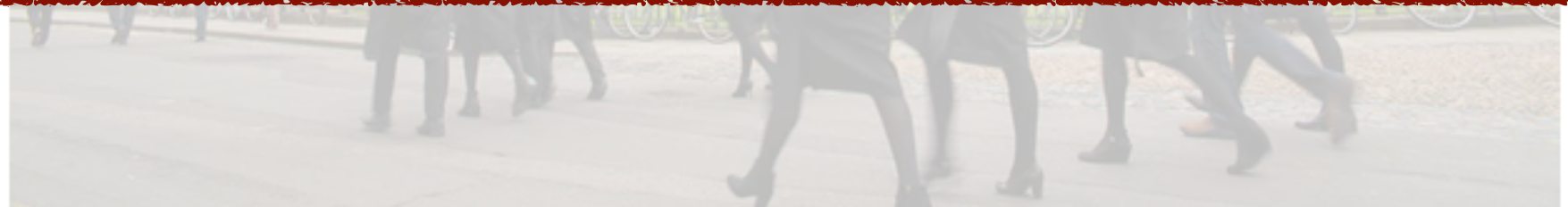
Higher
education

Sexual harassment 'at epidemic levels' in UK universities

Exclusive: Almost 300 claims against staff have been made in six years, but victims and lawyers say those are just tip of iceberg



A junior female member of staff at a university in southern England told the   she had tried to raise concerns about sexual harassment in her department for five years, but no manager she contacted had taken action. “The worst thing is that there are many people who are suffering under this professor. Simply putting in a formal complaint will not do anything but make life hell for me and other women. He will never be fired. Everyone I have spoken to confirms this.”



 Oxford University reported the highest number of staff-on-student and staff-on-staff allegations. Photograph: Pete Lusabia/Alamy Stock Photo

Harassment

Higher
education

'We felt inferior and degraded': reporting sexual harassment at university

Readers describe their experiences of misconduct, what happened when they complained - or why they chose not to



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Sally Weale and
Caroline Bannock

Sunday 5 March 2017
18.00 GMT



Harassment

“On paper, my university has proactive, supportive and committed policies and procedures to address sexual violence, sexual harassment and sexual discrimination. I now know that if it is the word of a student against a senior member of staff, that commitment quickly evaporates and they close ranks to protect their own.”

complaints – or why they chose not to



“This is everywhere in academia. I don’t want to stay in it. It’s huge. You’d hear these stories ... and you’d think maybe those things happen in those weird private universities in the States. I didn’t think it would happen here.

“I am leaving academia because of what happened. I’m going to do my PhD and then that’s it.”



Harassment

This is a huge problem in academia

Universities generally pay lip service to protecting victims of harassment — but most of the time they will protect themselves, their reputations, and their financial interests first

The CULTURE of response to harassment has to change — we need (at a minimum) for EVERYONE to respond vocally and demand action be taken to punish harassers

(I'm still not sure how to ensure a lasting solution...)

End Note:

**How can we (as a
science / HE community)
drive lasting change??**