

## SCIENCE

# Women Are Invited to Give Fewer Talks Than Men at Top U.S. Universities

It's not because they turn down talks more often, or because there aren't enough women to invite.

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Mae Jemison, the first black woman to travel in space (BRENDAN HOFFMAN / GETTY IMAGES)

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A few years ago, Michelle Hebl attended the latest in a series of talks hosted by her department at Rice University. The speaker was a man, and Hebl realized that she hadn't heard any female speakers in that series for a while. "Maybe I'm just not thinking about them," she thought. "Or maybe it's something we should look at."\*

Colloquium talks, where academics are invited to discuss their research, give speakers a chance to publicize their work, build collaborations with new colleagues, and boost their reputations. The talks can lead to promotions or job offers. They are big opportunities. But as Hebl's student [Christine Nittrouer](#)

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Nittrouer and her team scanned the websites of the top 50 U.S. universities, as ranked by *U.S. News*, to build a database of every colloquium speaker from six departments: biology, bioengineering, political science, history, psychology, and sociology. They chose those six to represent a breadth of disciplines, and to exclude departments with either a very low or very high proportion of women. And they found that men gave more than twice as many talks as women: 69 percent versus 31 percent.

That result should not be too surprising. Several studies have shown that men outnumber women among the speakers of several scientific conferences. There's even a site that collates examples of all-male panels.

Why does this happen? Hebl accounted for several of what she calls “yeah-but explanations,” which underplay these figures as the result of anything other than discriminatory biases. For example, some might argue that men outnumber women in many fields, and so any equitable selection process would naturally lead to more male speakers. But the team estimated the full pool of available speakers by counting every professor in their six chosen fields at each of the top 100 U.S. universities. And even after adjusting for the relative numbers of men and women in the various fields or ranks, they found that men are *still* 20 percent more likely to be invited to give colloquium talks than women.

Skeptics might also argue that the problem is a generational one: Science, for instance, has historically been skewed toward men, and when colloquia committees decide whom to invite, they're prisoners of that history. But if that were true, and the arc of academia was slowly bending toward equality, then when assistant and associate professors—who are younger and more junior than full professors—are selected to give talks, the gender difference should be narrower. Hebl's team found no such trend. “The people in whom we should see more parity aren't showing us more parity,” she says.

“People sometime say: You know what? Maybe it's the women,” says Hebl. “Maybe they don't *want* to give talks, or they're declining because they're staying home with their kids.” That's not what she found when she surveyed 186 professors who didn't give colloquium talk at prestigious universities, but were in the same departments as those who did. Their answers clearly showed that women don't

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nominations, and cast a slightly wider net,” she says. “The results have been colloquia with equal numbers of men and women in recent years, and a wider, more interesting array of scientific ideas that we’re exposed to.” And even if committee members struggle to think of female speakers, several scientists have now compiled lists of possible names in microbiology, astronomy, physics, evolution, political science, neuroscience, and more.

“While finding more women gatekeepers may help get more women colloquium speakers, will it actually solve the whole problem?” asks Kelly Ramirez from Colorado State University, cofounder of 500 Women Scientists. “Probably not. There are so many things that can make science a toxic or difficult environment for women.” When seeking jobs, women are viewed as being less competent than identical male applicants. They’re offered lower salaries and fewer opportunities for mentorship, and they’re given shorter letters of recommendation with more hedging words. When teaching, they’re rated more negatively. When simply trying to work, they face high levels of sexual harassment and assault.

The solution, Ramirez says, is to “build a strong and large network so whatever the challenge, women scientists will have a network to turn to. And we need to speak up, set examples, and hold people and institutions accountable.”

All of these barriers are particularly profound for women of color, who face a double whammy of discrimination because of both their race and gender. It’s telling that Hebl’s team wanted to look at whether ethnicity deepens the gender disparity among colloquium speakers, but with the universities they looked at, they couldn’t find enough professors of color to get a statistically strong sample.

*\* This article originally attributed quotes from Michelle Hebl to Christine Nittrouer. We regret the error.*

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