

their claims on faith rather than evidence. A screen full of numbers will be unreadable to most people in the room. And a slide that displays four, five or six figures (or more!) might perhaps be useful as an eye test, but will not be an effective aid to communication.

Simplify and enlarge. Use one graphic element per slide. Instead of showing an entire table, highlight only those data that are central to your argument. If someone asks about the underlying details, you have a wonderful opportunity to share the accompanying paper or data set. Show full-bleed images that take up the entire screen, with no borders or white space. Make everything – figures, text, photographs – large enough to be read easily by someone sitting at the back of the room.

Explain your figures. If you are presenting to an audience of fellow hard-core specialists, it might make sense to skip definitions of jargon, axes and colours. In any other setting, however, take the time to explain what a figure shows. In the process, you will be forced to trim extraneous content and further hone your main message.

Write ‘sentence headline’ titles. It’s easy to become distracted and miss the speaker’s explanation of a key graphic or argument. Presenters often use a single word or short phrase as the headline, which provides only a partial explanation of their content. Instead of simply naming the topic (for instance, ‘El Niño and near-surface winds’), write titles as ‘sentence headlines’ – complete thoughts that state the main assertion of the slide (‘El Niño causes near-surface winds in winter to slow down by 20%’).

Use a lot of slides if you want. Abandon the ‘one slide per minute’ rule of thumb. Go ahead, use four slides per minute – but only do so if the information content of most of them is low. Think of your talk as a meal with a set number of calories: your audience could digest the same total amount, spread across a couple of hearty courses or 20 micro-courses, but they will not be able to consume a dozen ‘extra-large pizzas’ no matter how large or small the slices.

Fundamentally, you are trying to tell an interesting story about what you did and why the findings matter. Articles in journals or other publications are usually the better place for methodological details, mathematics and the nuances of your uncertainty analysis. Use the presentation to convey a single message – and your excitement for the work – simply and clearly.

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HOMOGENEITY IN THE UK

White men earn most and outnumber others in British academic science. By Chris Woolston

Male academic scientists outnumber their female counterparts by two to one in biology, mathematics and physical sciences in the United Kingdom, and by more than four to one in engineering and technology, according to an official report collated for the government and released last month. More than three-quarters of academic staff are white, the report also finds.

‘Who works in HE?’, compiled and published by the Higher Education Statistics Agency (HESA) in Cheltenham, UK, points to significant, ongoing disparities in employment at universities. The report includes details on 217,065 academic employees – including 143,510 full-time workers – during the 2018–19 academic year.

The gender gap has narrowed only minimally in recent years. For example, women made up 18% of academic staff in engineering and technology in the 2014–15 academic year, compared with 19% in 2018–19.

Money matters

Women in academic positions also tend to earn less than do their male counterparts. Just over half of all men in biology, maths and physical sciences reported earning more than about £45,900 (US\$59,000) per year, but only 37% of women reached that pay level. At the other end of the scale, 17% of women but just 11% of men reported earning less than about £34,200 annually. In engineering and technology, 51% of men and 44% of women earned more than about £45,900 per year. In both subject categories, 10 people reported their gender as ‘other’, and 50% of those had salaries of more than £45,900.

“Gender parity in pay and seniority in higher education in the UK has such a long way to go. This is particularly true in the STEM (science, technology, engineering and maths) subjects,” says Ivana Vasic, head of research at the Women’s Higher Education Network, an advocacy group based in London. She notes that, according to the HESA report, the number of women in the highest annual-income bracket (more than about £62,000) in academic posts in biology, maths, physical sciences, engineering and technology has risen by about 25% since 2014–15, whereas the number of men in that bracket has stayed roughly the same.



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“That’s progress, yes, but it’s painfully slow,” she says.

Ethnicity breakdown

Ethnic disparities in UK academic employment have remained stark. Some 76% of academic faculty and staff members identified as white, 9% as Asian and 2% as black. Ten per cent described their ethnicity as ‘other’ or gave no information.

Around 55% of white respondents in engineering and technology reported earning more than about £45,900, but only 29% of black respondents fell into that bracket.

Gender and ethnic inequities in UK academia have been an issue for a long time, say researchers in the field. “These figures don’t tell us anything new,” says Kalwant Bhopal, director of the Centre for Research in Race and Education at the University of Birmingham, UK. In a 2019 paper, Bhopal used interviews to explore the role of gender and ethnicity in career progression and retention in higher education (K. Bhopal *Res. Pap. Educ.* <http://doi.org/dpkz>; 2019). “Higher education continues to be a white space in which black and minority-ethnic groups are paid much less than their white colleagues,” she says.

Bhopal wants all UK higher-education institutions to be required to participate in the Race Equality Charter, an initiative of Advance HE, a non-profit higher-education support organization based in York, UK, which also runs the Athena SWAN Charter for gender equality. Institutions that sign up to both charters commit to promoting equality among academic staff and in the student body.