

References

“We Were Never Taught to Teach: Knowing Better, Doing Better”

Talk by Dr. Shirley Malcom at Caltech. April 24, 2018

Association of American Universities (AAU). 2012 – present. *Undergraduate STEM Education Initiative*. [Link to website with publications and resources](#).

Bian, Lin, Sarah-Jane Leslie, Andrei Cimpian. 2017. Gender stereotypes about intellectual ability emerge early and influence children’s interests. *Science* 355(6323).
<https://doi.org/10.1126/science.aah6524>.

Connolly, Mark et al. *Talking About Leaving Revisited*. [Link to project website](#).

Eddy, Sarah L. and Kelly A. Hogan. 2017. Getting Under the Hood: How and for Whom Does Increasing Course Structure Work? *CBE Life Sci Educ.*, 13 (3).
<https://doi.org/10.1187/cbe.14-03-0050>.

Freeman, Scott, Sarah L. Eddy, Miles McDonough, Michelle K. Smith, Nnadozie Okoroafor, Hannah Jordt, and Mary Pat Wenderoth. 2014. Active learning increases student performance in science, engineering, and mathematics. *PNAS* 111(23).
<https://doi.org/10.1073/pnas.1319030111>.

Freeman, Scott, David Haak, and Mary Pat Wenderoth. 2011. Increased Course Structure Improves Performance in Introductory Biology. *CBE Life Sci Educ.* 10(2).
<https://doi.org/10.1187/cbe.10-08-0105>.

Leslie, Sarah-Jane, Andrei Cimpian, Meredith Meyer, Edward Freeland. 2015. Expectations of brilliance underlie gender distributions across academic disciplines. *Science* 347(6219).
<http://doi.org/10.1126/science.1261375>.

National Academies of Sciences, Engineering, and Medicine. 2016. *Barriers and Opportunities for 2-Year and 4-Year STEM Degrees: Systemic Change to Support Students' Diverse Pathways*. Washington, DC: The National Academies Press.
<https://doi.org/10.17226/21739>.

President’s Council of Advisors on Science and Technology (PCAST). 2012. *Engage to Excel: Producing One Million Additional College Graduates with Degrees in Science, Technology, Engineering, and Mathematics*. [Link to full-text pdf](#).

Seymour, Elaine and Nancy M. Hewitt. 1997. *Talking About Leaving: Why Undergraduates Leave the Sciences*. Routledge Press. [Link to original book](#) (Amazon).

Stains, M. J. Harshman, M. K. Barker, S. V. Chasteen, R. Cole, et al. 2018. Anatomy of STEM teaching in North American universities. *Science* 359(6383).
<https://doi.org/10.1126/science.aap8892>.