

Women in mathematics and statistics - US

Roundtable discussion on the gender gap in mathematics

CIRM, October 14, 2015

Data on women in mathematics and statistics circa 2014

- Undergraduate math majors: **43%** women
- New PhDs in math: **28%** women
- Postdocs in math: **21%** women
- tenured math faculty at PhD-granting institutions: **12%** women
- tenured or tenure-track faculty at “top 6” mathematics departments: 4/40, 3/42, 0/19, 7/57, 4/38, 3/38: **9%**
- AMS prizes awarded at the Joint Math Meeting 2014: **0%**

Number of bachelor's degrees in math by gender

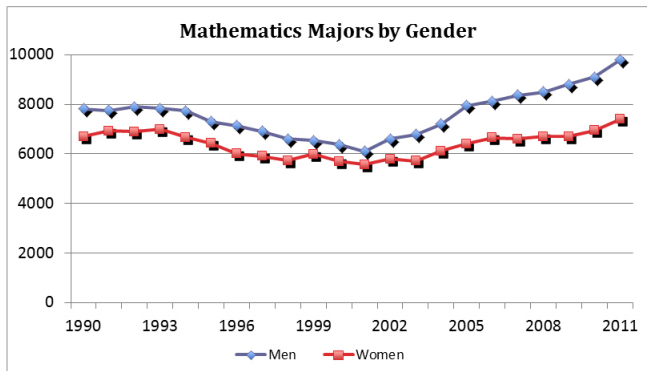
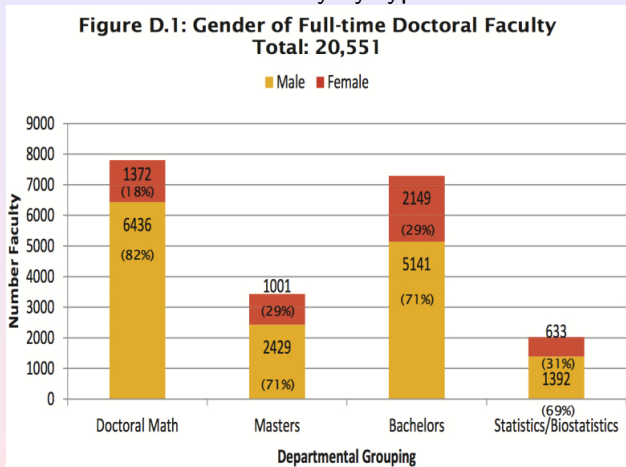


Figure 1. Source: National Center for Education Statistics.

Gender of full-time PhD faculty by type of institution - 2012.



Association for Women in Mathematics

- Established 1971.
- Stated purpose: To encourage women and girls to study and to have active careers in the mathematical sciences and to promote equal opportunity and the equal treatment of women and girls in the mathematical sciences.
- Sponsors lectures, prizes, travel awards for women.
- Recently awarded an NSF ADVANCE grant: Career Advancement for Women Through Research-Focused Networks.

WIN: Women in Number Theory

- Resource for female number theorists, showcases contributions of women to NT.
- Sponsors very successful workshops at Banff for women in number theory to encourage networking, mentoring, research collaborations.
- Perhaps a model for other areas of mathematics?

JCW-Math: Joint Committee on Women in the Mathematical Sciences

- Founded 1971 as a joint committee of the AMS. Now a joint committee of eight math and stats societies.
- Serves as a forum for communication among member organizations about the ways in which each organization enhances opportunities for women in the mathematical and statistical sciences.
- Aims to attract women to math and stats and supports adoption of practices that minimize the potential for bias.

MSRI Connections for Women

- Two-day workshops held before the week-long Introductory Workshops, tied to semester-long programs.
- Aims to provide an “enhanced opportunity” for female researchers to interact with other women with similar research interests.
- Speakers and supported participants are female, although the workshop is open to everyone.