

# MATHEMATICS

## What can you do with a Ph.D. in Mathematics?

*\* A Ph.D. in mathematics is usually the minimum educational requirement for positions as a mathematician!*

### Mathematicians are employed by:

Colleges and Universities  
Business and Industry  
Government Agencies  
Research Institutions  
Non-Profit Organizations

### ...and enjoy titles such as:

- Numerical Methods Programmer/Analyst
  - Chief Operating Officer
  - Applied Mathematician
  - Technical Staff Member
    - Professor
- Senior Research Scientist /Engineer
  - Model Builder
  - Systems Analyst
- Researcher/Software Design Engineer
  - Quantitative Analyst

## What does CWU have to offer?

The **McNair Scholars Program** that pairs students in one-on-one faculty research mentorships and provides guidance through the graduate school application process, including GRE preparation!

### Actuarial Club

Annual Mathematical **Contest** in Modeling

### Annual Putnam **Competition**

### The **University Math Center**

The opportunity to present scholarly research at CWU's **SOURCE** conference

The Science Talent Expansion Program (STEP), which focuses on increasing the total number of students obtaining STEM (Science, Technology, Engineering, and Mathematics) degrees at CWU and the number of traditionally underrepresented students in STEM under-graduate majors.

## Featured McNair Scholars Alumnus:

### **Diane Vaughan**

*BA in Mathematics - CWU*

*MS in Mathematics - Oregon State U.*

*Ph.D. in Operations Research -  
Virginia Polytechnic Institute*

*Formerly: Post Doctorate Research Associate, Department of Mechanical and Industrial Engineering, University of Illinois, Urbana-Champaign.*

*Currently: Technical Staff Member in Methods and Algorithms in the Applied Physics Division at Los Alamos National Lab*

## Helpful Links:

Association for Women in Mathematics

<http://www.awm-math.org/>

American Statistical Association

<http://www.amstat.org/>

The Mathematical Association of America

<http://www.maa.org/>

American Mathematical Society

[www.ams.org](http://www.ams.org)

Society for Industrial and Applied Mathematics

[www.siam.org](http://www.siam.org)