The MS and PhD programs in the Department of Applied Mathematics and Statistics prepare the next generation of leading mathematical and statistical researchers, both in the private and public sectors, for a world driven by increasingly complex technology and scientific challenges.

Graduates of the M.S. and Ph.D. programs work in a variety of different sectors, including technology, engineering, finance, and academia. Recent alumni have obtained positions at companies like Northrop Grumman, Lockheed Martin, and Oppenheimer Funds, as well as, national laboratories, and both teaching- and research-oriented universities.

### CAREER OPPORTUNITIES

- Spatial Statistics
- Statistics for Inverse Problems
- Environmental Statistics
- Survival Analysis
- Multivariate Statistics
- Statistical Computing
- Data Science and Machine Learning

### MS AND PhD CURRICULUM

MS and PhD students pursuing STAT will complete the following five courses:

- Linear Vector Spaces
- Statistical Methods I
- Statistical Methods II
- Mathematical Statistics I
- Mathematical Statistics II
- Stochastic Models
- Time Series and Applications

Plus, two elective courses in topics such as:

- Spatial Statistics
- Survival Analysis
- Multivariate Statistics
- Survival Analysis

### AVERAGE STARTING SALARY FOR GRADS

$78,413

### 1.5 YEARS

MS MEAN TIME TO GRADUATION

### 4.5 YEARS

PhD MEAN TIME TO GRADUATION

*Information is from the 2016-17 Mines Career Center Outcomes Survey

### STATISTICS

#### DEGREES OFFERED

- **Master of Science**
  - 30 credits
- **Doctor of Philosophy**
  - 72 credits

### FACULTY RESEARCH AREAS:

- Spatial Statistics
- Statistics for Inverse Problems
- Environmental Statistics
- Survival Analysis
- Multivariate Statistics
- Statistical Computing
- Data Science and Machine Learning

**JAI ME BACHMEIER • Program Manager • jbachmeier@mines.edu • 303.273.3860**

**PROFESSOR STEVE PANKAVICH • Director of Graduate Studies • pankavic@mines.edu**