

Department of Statistics

UNDERGRADUATE STUDENTS

- 925 total Statistics majors (612 in Statistics, 313 in Statistics + CS)
- Many double majors
- 36% females
- Ranked second nationally in number of Statistics bachelor's degrees awarded

GRADUATE STUDENTS

- 177 MS students (48 in an Analytics concentration)
 - 58 PhD students
 - 47% females in MS, 26% females in PhD
- * Enrollment numbers as of February 2020

SUCCESS AFTER GRADUATION

Our graduates pursue employment in fields including:

- **Insurance and financial companies** (State Farm, Synchrony, Allstate, Zurich, Citi, etc.)
- **Information services and data science** (Google, Microsoft, Facebook, LinkedIn, etc.)
- **Market research firms** (Nielsen, IRI, 84.51^o, etc.)
- **Consumer products** (Anheuser-Busch InBev, @Walmart Labs, Procter & Gamble, etc.)
- **Biotech and pharmaceutical** (AbbVie, Genentech, etc.)
- **Ag and Ag Tech** (Bayer Crop Science, Corteva, Syngenta, etc.)
- **Engineering and manufacturing** (Caterpillar, Deere and Company, etc.)
- **Universities** (the universities of Chicago, Michigan, and Miami, Rutgers University, etc.)
- **Government agencies** (National Institutes of Health, Food and Drug Administration, Census Bureau, etc.)

And perform a variety of roles, including:

Data Scientist, Predictive Modeler, Predictive Analyst, Statistician, Software Engineer, Machine Learning Engineer, Quantitative Analyst, Assistant Trader, Big Data Developer, Business Analyst, Consumer Support Analyst, Actuarial Analyst, Data Analyst, Financial Analyst, Financial Engineer

RESEARCH EXPERTISE

Leading research by faculty and students in:

- **Fundamental Areas of Statistics**
nonparametric statistics, Bayesian methods, machine learning, dependent and longitudinal data analysis, time series and spatial-temporal models, causal inference, ...
- **Data Science and Big Data Analytics**
inference and machine learning for high dimensional data analysis, computational statistics, parallel computing in statistics, functional image analysis in medicine and neuroscience, climate modeling, network analysis, ...
- **Biostatistics and Quantitative Biology**
generalized survival and longitudinal analysis, integration of mass spectral and genomics data, low-rank representation of genomics data, statistical modeling in ecology, ...
- **Statistical Methodology in the Social Sciences**
latent variables and multilevel modeling, educational measurement and cognitive assessment, complex statistical surveys and instruments analysis, econometric methods, policy analysis, risk analysis, ...

WAYS TO ENGAGE WITH THE DEPARTMENT

A variety of ways to engage with students, including:

- internships and research assistantships
- student competitions and workshops
- scholarships and fellowships
- course projects, and consulting through the Illinois Statistics Office and consulting class
- company presentations
- semi-annual Statistics and Math career forum

Consultation and collaboration:

- with faculty through sponsored research and grants
- with senior PhD students and faculty director through the Illinois Statistics Office

For more information about opportunities for engagement, please contact Darren Glosemeyer: glosemey@illinois.edu.

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