Sample Department Research Opportunities

- Bioinformatics
- Quantitative Finance
- Sports Analytics
- Social Network Analysis
- Bayesian Statistics
- Astrophysics
- Causal Inference

Sample Faculty Research and/or Publications

- See statistics.fas.harvard.edu/pages/faculty-research for more information.

Sample Thesis Titles

- A Future of Abundant Sparsity: Novel Use and Analysis of Sparse Coding in Machine Learning Applications
- Who Pays a Motherhood Wage Penalty? The Role of Job Change and Employment Gaps
- Predicting General Education Course Enrollments at Harvard College
- Quantifying Uncertainty in Oil and Gas Production Forecasts
- How to Order Sushi: A Nonparametric Approach to Modeling Rank Data
- Cross-Talk Analysis in Breast Cancer Tissues
- Volatility Prediction for Risk Parity Portfolios
- Yelping for Help and Helping Yelp: Recommendation Systems Meet Topic Modeling

At a Glance

Sample Department Research Opportunities

- Objective Bayes: Neither Objective Nor Bayesian
- From Tent to Home: Measuring the Causal Effect of Relocation Programs in Port-au-Prince, Haiti

Sample Faculty Research and/or Publications

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Gateway Courses

Suggested and/or Required Courses

- Statistics 100: Introduction to Quantitative Methods for the Social Sciences and Humanities (fall)
- Statistics 101: Introduction to Quantitative Methods for Psychology and the Behavioral Sciences (fall)
- Statistics 102: Introduction to Statistics for Life Sciences (spring)
- Statistics 104: Introduction to Quantitative Methods for Economics (fall and spring)

Only one of Stat 100, 101, 102 or 104 can be taken for credit

- Statistics 110: Introduction to Probability (fall)
- Statistics 111: Introduction to Theoretical Statistics (spring)
- Statistics 139: Statistical Sleuthing Through Linear Models (fall and spring)

It is highly recommended to take Stat 110, 111 and 139 sequentially and in numerical order

Sample Advanced Courses

- STAT 115: Introduction to Computational Biology and Bioinformatics
- STAT 120: Bayesian Statistics
- STAT 121a: Data Science I
- STAT 121b: Data Science II
- STAT 123: Applied Quantitative Finance
- STAT 131: Time Series & Prediction
- STAT 170: Quantitative Analysis of Capital Markets
- STAT 171: Stochastic Processes
- STAT 186: Statistical Methods for Evaluating Causal Effects

Sample Thesis Titles

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