

Semester/Year	Principal Investigator	Affiliation	Project
Spring 2022	Jonathan Reeve, Ph.D., Isabelle Zaugg, Ph.D., Tian Zheng, Ph.D.	Department of Statistics	People vs. Algorithms
Spring 2022	Suzana J. Camargo, Ph.D. Chia-Ying Lee, Ph.D.	Lamont-Doherty Earth Observatory	Tropical cyclones classification and latent trajectory model
Spring 2022	Bodhisattva Sen, Ph.D.	Department of Statistics	Multivariate, Heteroscedastic Empirical Bayes via Nonparametric Maximum Likelihood
Spring 2022	Samory K. Kpotufe, Ph.D.	Department of Statistics	Developing new tools for classifying videos of human-machine interactions in the Internet-of-Things (IoT) domain
Fall 2021	Raul Rabadan, Ph.D.	Department of Systems Biology	Stand Up to Cancer Convergence
Fall 2021	Liam Paninski, Ph.D.	Department of Statistics	Calcium imaging: improving and streamlining this processing pipeline for large-scale dissemination and use;
Fall 2021	Brent Stockwell, Ph.D.	Department of Biological Sciences	Statistical analysis of mass spectrometry imaging data
Fall 2021	Andrew Gelman, Ph.D.	Department of Statistics	Improving the Stan ecosystem in R
Fall 2021	Alfredo Spagna, Ph.D.	Department of Psychology	Imaging the brain activity of students studying brain imaging
Summer 2021	Wayne T. Lee, Ph.D.	Department of Statistics	Data Solutions Design Studio
Summer 2021	Isabelle Zaugg, Ph.D., Tian Zheng, Ph.D.	Data Science Institute & Department of Statistics	Mapping patterns in data ethics education approaches
Spring 2021	Kun Yang, Ph.D.	Department of Statistics	Anomaly detection in IoT with machine learning
Summer 2021	Bruce Yang	AI4Finance, Inc.	Reinforcement learning for finance
Spring 2021	Jessica Goldthwaite, Tebah Brown, et al	The Legal Aid Society	Bayesian algorithms performing probabilistic DNA Profiling (PDP)
Spring 2021	Lucas Lau, et al	Protiviti, Inc.	Risk classification & profiling using data science/machine learning
Spring 2021	Eric Novik	Generable, Inc.	Develop semi-mechanistic, statistical models, and software for understanding and predicting the effectiveness of oncology treatments from early clinical data
Spring 2021	Andrew Blumberg, Ph.D.	Irving Institute for Cancer Dynamics	Gathering experimental evidence about torsion homology in random complexes.
Spring 2021	Sharon Dj, Ph.D	Columbia Engineering	Causal inference for traffic safety assessment
Fall 2020	Siddhartha R. Dalal, Ph.D.	Department of Statistics	Measuring relative bias in print media's non-language and linguistic characteristics
Fall 2020	Xiaofei Shi, Ph.D.	Department of Statistics	Causal relationships among cryptocurrencies, foreign exchange market, and equity market
Fall 2020	Marco Avella Medina, Ph.D.	Department of Statistics	Estimation of undirected network using double index model
Summer 2020	Banu Baydili, Ph.D.	Department of Statistics	Advanced modeling in Bayesian statistics
Summer 2020	Wayne T. Lee, Ph.D.	Department of Statistics	Validating the use of spatial statistics in supply chain optimization
Summer 2020	Wayne T. Lee, Ph.D.	Department of Statistics	Educational UI for tagging problems and concepts (for statistics education)
Summer 2020	Victor de la Pena, Ph.D.	Department of Statistics	Programming support, including simulations, to assess performance of alternative predictive models
Summer 2020	Margaret Holen, Ph.D.	Department of Statistics	Financial Technology and Data-Driven Innovation
Spring 2020	Merlin Chowkwanyun, Ph.D.	Mailman School of Public Health	Toxic documents
Spring 2020	Yao Lai, Ph.D.	Lamont-Doherty Earth Observatory	Neural network mapping of surface Antarctic fracture using high-resolution imagery

Spring 2020	Xiaoyue Niu, Ph.D.	Department of Statistics, Pennsylvania State University	Network analysis algorithm
Spring 2020	Li-Xuan Qin, Ph.D.	Memorial Sloan Kettering Cancer Center	Cancer research transcriptomics, microbiome, or imaging data analysis
Spring 2020	Itsik Pe'er, Ph.D.	Columbia Engineering	Genomics
Spring 2020	Upmanu Lall, Ph.D.	Columbia Engineering	Spatio-temporal modeling in environmental research
Spring 2020	Chunhua Weng, Ph.D.	Department of Biomedical Informatics	Developing computational methods to extract evidence from PubMed abstracts, integrate evidence in the literature with evidence derived from real world clinical data (or practice-based evidence), perform automated and scalable knowledge discovery
Fall 2019	Siddhartha R. Datal, Ph.D.	Department of Statistics	Identifying ransomware bad actors in the bitcoin network
Fall 2019	Yao Lu, Ph.D. Kriste Krstovski, Ph.D.	Department of Sociology & Business School	Corporate climate and the career path of women and minorities