Statistics and Data Science

Contact: Department of Statistics and Data Science

Email: sds@wustl.edu
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Faculty

Chair

Xuming He

Kotzubei-Beckmann Distinguished Professor PhD, University of Illinois at Urbana-Champaign Robust statistics; quantile regression; Bayesian inference; postselection inference

Director of Graduate Studies, PhD Program

José Figueroa-López

Professor

PhD, Georgia Institute of Technology

Inference methods for stochastic processes based on high-frequency sampling data; nonparametric estimation and model selection methods; time series analysis; high-frequency algorithmic trading, limit order book modeling, and asset price formation

Director of Master's Program

Nan Lin

Professor

PhD, University of Illinois at Urbana–Champaign Statistical computing in big data, quantile regression, causal inference, longitudinal data and functional data analysis, and statistical applications in anesthesiology

Directors of Undergraduate Studies

Jimin Ding

Associate Professor

PhD, University of California, Davis

Survival analysis; longitudinal data analysis; joint modeling of longitudinal and survival data; functional data analysis; nonparametric smoothing methods; systems of differential equations; dynamical systems; profile likelihood; asymptotic theories

Joe Guinness

Associate Professor

PhD, University of Chicago

Computing and methodology for large spatial and spatial-temporal datasets; Gaussian process models

Department Faculty

Likai Chen

Assistant Professor

PhD, University of Chicago

Time series; high dimensional data analysis; statistical learning theory

Ran Chen

Assistant Professor

PhD, University of Pennsylvania

Reinforcement learning; data-driven decision-making; optimization; statistical machine learning; high-dimensional statistics; nonparametric statistics

Hong Hu

Assistant Professor

PhD, Harvard University

Statistical signal processing; machine learning

Abigail Jager

Senior Lecturer

PhD, University of Chicago

Statistics; causal inference

Vasileios (Bill) Katsianos

Senior Lecturer

PhD, University of Chicago

Statistical genetics; multiple testing with dependence; graphical models; Markov Chain Monte Carlo methods; time series analysis; model-based clustering

Todd Kuffner

Associate Professor

PhD, Imperial College London

Statistics; econometrics; Bayesian asymptotics; applications of differential geometry to statistics; empirical likelihood; variable and model selection methods

Soumendra Lahiri

Stanley A. Sawyer Professor

PhD, Michigan State University

Asymptotic expansions, astrostatistics, inference for high dimensional and massive data sets, machine learning and predictive modeling, resampling and computer intensive methods, spatial statistics, time series and econometrics

Bo Li

Stanley A. Sawyer Professor

PhD, Texas A&M University

Spatial and spatiotemporal statistics; univariate and multivariate spatiotemporal data modeling; functional data analysis; multiple testing; copula methods; Bayesian hierarchical modeling; spatial extremes

Robert Lunde

Assistant Professor

PhD, Carnegie Mellon University

Statistical network analysis; time series; resampling methods; highdimensional statistics

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Carlos Misael Madrid Padilla

Assistant Professor

PhD, University of Notre Dame

High-dimensional statistics; nonparametric statistics; change point detection; causal inference; Bayes methodology

Debashis Mondal

Associate Professor

PhD, University of Washington

Spatial statistics; computational science; machine learning; applications in ecology (including microbial ecology); environmental sciences

Lizda Nazdira Moncada Morales

Lecturer

PhD, University of Notre Dame

Statistical machine learning; combinatorial commutative algebra

Xiaofeng Shao

Lecturer

PhD, University of Chicago

Econometrics; time series analysis; change-point analysis; highdimensional statistics; nonparametric statistics; functional data analysis

Debjoy Thakur

Postdoctoral Lecturer
PhD, Indian Institute of Technology
Spatial statistics, resampling method, copula, spatial extreme, statistical neural network

Shota Takeishi

Postdoctoral Lecturer PhD, University of Tokyo Heterogeneity; survival analysis; asymptotic theory