

# Statistics faculty actively seeking new PhD advisees

Alphabetical by last name

## Marie Davidian

- Planning/hoping to retire in the next few years, so not taking on new students as the sole advisor. Can serve as a co-advisor with the understanding that she might retire and won't be able to devote full time once she does.
- Email address: [davidian@ncsu.edu](mailto:davidian@ncsu.edu)
- Academic website: <https://www4.stat.ncsu.edu/~davidian/>

## Sujit Ghosh

- 1. Interested to take on a couple of students. Affiliated to the UQ4Life NSF project (PI: Reich) which may have restricted funding support
- 2. Potential research topics: Bayesian machine learning methods with applications in astrostatistics, biostatistics and finance
- 3. Some recent papers available on NCSU CI profile ([link](#)) and some recent students' theses that he has supervised:
  - (a) Density Estimation with Data Irregularity in Astronomy (Qi Ma): [link](#)
  - (b) Covariance Function Estimation and Causal Inference Methods: [link](#)
  - (c) Statistical Models and Inference for Manifold Data: [link](#)
- Email address: [sghosh2@ncsu.edu](mailto:sghosh2@ncsu.edu)
- Academic website: <https://www4.stat.ncsu.edu/~sghosh2//>

## Nathaniel Josephs

- Seeking to begin advising new PhD Students
- Email address: [nathaniel.josephs@ncsu.edu](mailto:nathaniel.josephs@ncsu.edu)
- Academic website: <https://njosephs.com>

## Donald Martin

- Interested in taking on one to two students
- Research statement: [link](#)
- Email address: [demarti4@ncsu.edu](mailto:demarti4@ncsu.edu)

## Brian Reich

- Actively seeking graduate students to work on currently funded projects that cover a range of topics including:
  - An NSF training grant on uncertainty quantification for life sciences
  - Spatial causal inference for environmental health
  - Extreme value analysis for climate studies
- Email address: [bjreich@ncsu.edu](mailto:bjreich@ncsu.edu)
- Academic website: <https://bjreich.wordpress.ncsu.edu>

### **Kimberly Sellers**

- Interested to co-advise
- Not able to serve as a sole or primary adviser, given Department Head responsibilities
- Has some funding support for research
- Email address: [kimberly\\_sellers@ncsu.edu](mailto:kimberly_sellers@ncsu.edu)
- Academic website: <https://www.kimflaggsellers.com>

### **Charles E. Smith**

- Can serve on committee, or for appropriate topic as co-chair or chair
- Potential topics:
  1. Human biodynamics: model based and data driven analysis of human gait and postural sway. Requires some knowledge of stochastic processes and of dynamic systems.
  2. Stochastic ordering of first passage times: Laura Sacerdote and I did a theoretical paper “Almost sure comparisons for first passage times of diffusion processes through boundaries”, *Methodology and Computing in Applied Probability* 6: 323-341.(2004) and several application papers on computational neuroscience in *Biological Cybernetics* and *Biosystems*. Looking to extend the theory and new application areas.
- Email address: [bmasmith@ncsu.edu](mailto:bmasmith@ncsu.edu)
- For publications see ResearchGate: <https://www.researchgate.net/profile/Charles-Smith-55/>

### **Jonathan Stallrich**

- Interested in taking on 1-2 students
- Some funding for students but not full semester funding
- Research mainly focuses on experimental design but has been pushing these beyond the classical methods. In particular, has interesting, novel projects about:

1. Experimental design with functional predictors
  2. Optimal designs for generalized linear models
  3. Optimal designs for penalized estimators (see link)
  4. A/B testing in the presence of networks (see link which is a review paper he coauthored that has nearly 13,000 views)
- Email address: [jwstalli@ncsu.edu](mailto:jwstalli@ncsu.edu)
  - Academic website: <https://jonstallrich.com>

### **Jonathan Williams**

- May take on new students in Spring 2025
- Potential projects relating to:
  - Conflict research methods and applications; see manuscript: link
  - Foundations of statistics focusing on imprecise probability and model-free generalized fiducial inference; see manuscripts: link 1 and link 2
- Email address: [jwilli27@ncsu.edu](mailto:jwilli27@ncsu.edu)
- Academic website: <https://jonathanpw.github.io>

### **Luo Xiao**

- Actively seeking one or two PhD students to work on funded projects
- Potential projects:
  - Deep learning methods for modeling brain imaging data and its association with health outcomes
  - Joint modeling of longitudinal and survival data with functional data methods
- Email address: [lxiao5@ncsu.edu](mailto:lxiao5@ncsu.edu)
- Academic website: <https://www4.stat.ncsu.edu/~lxiao5//>