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
- 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
- Academic website: `https://www4.stat.ncsu.edu/~sghosh2//`

Nathaniel Josephs

- Interested in talking to students
- Email address: 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

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
- 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
- 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
- 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. Design and analysis of computer experiments
    2. Experimental design with functional predictors
    3. Optimal designs for generalized linear models
    4. Optimal designs for penalized estimators (see link)
    5. 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
- Academic website: `https://jonstallrich.com`

Jonathan Williams

- No capacity at this time
- Email address: jwilli27@ncsu.edu
- Academic website: `https://jonathanpw.github.io`

Luo Xiao

- Actively seeking one or two PhD students to work on 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
- Academic website: `https://www4.stat.ncsu.edu/~lxiao5//`