ERIC W. FOX

US EPA, Western Ecology Division
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EDUCATION

- Ph.D. in Statistics, UCLA, Los Angeles, CA, 2015.

  - Dissertation: *Estimation and inference for self-exciting point processes with applications to social networks and earthquake seismology*
  - Advisor: Rick Schoenberg

- B.A. in Mathematics, Occidental College, Los Angeles, CA, 2009.

RESEARCH INTERESTS

Spatial statistics, point processes, and statistical learning with applications to ecology, seismology, and social networks.

RESEARCH AND TEACHING POSITIONS

- Postdoctoral Researcher in Statistics, US EPA, Western Ecology Division, 2015–present.

- Graduate Student Researcher, UCLA Department of Mathematics, 2012–2014.

- Teaching Assistant/Associate, UCLA Department of Statistics, 2011–2012.

  - Stats 12: Intro to Stat. Methods for Geo. and Env. Sciences
  - Stats 13: Intro to Stat. Methods for Life and Health Sciences
  - Stats 100B: Mathematical Statistics

- Private Math/Stats Tutor, 2010-2015.

- Math Workshop Facilitator, Occidental College, 2007–2009.

PUBLICATIONS

- Fox, E.W., Schoenberg, F.P., and Gordon J.S. (2016). Spatially inhomogeneous background rate estimators and uncertainty quantification for nonparametric Hawkes point process models of earthquake occurrences. *Annals of Applied Statistics*, 10(3), 1725–1756.

- Fox, E.W., Short, M.B., Schoenberg, F.P., Coronges, K., and Bertozzi, A.L. (2016). Modeling e-mail networks and inferring leadership using self-exciting point processes. *Journal of the American Statistical Association*, 111(514), 564–584.

- Lai, E., Moyer, D., Yuan, B., Fox, E.W., Hunter, B., Bertozzi, A.L., and Brantingham, P.J. (2016). Topic time series analysis of microblogs. *IMA Journal of Applied Mathematics*, 81(3), 409–431.

Submitted

- Fox, E.W., Hill, R.A., Leibowitz, S.G., Olsen, A.R., Thornbrugh D.J., and Weber M.H. Assessing the accuracy and stability of variable selection methods for random forest modeling in ecology. submitted to *Environmental Monitoring and Assessment*.

- Hill, R.A., Fox, E.W., Leibowitz, S.G., Olsen, A.R., Thornbrugh D.J., and Weber M.H. Predictive mapping of the biotic condition of conterminous-USA rivers and streams. submitted to *Ecological Applications*.

PRESENTATIONS

- Fox, E.W., Hill, R.A., Leibowitz, S.G, Olsen, A.R., and Weber, M.H. Random forest models for the probable biological condition of rivers and streams in the USA. Invited Talk, International Indian Statistical Association Conference, Corvallis, August 2016.

- Fox, E.W. Statistical properties of Marsan-Lengliné estimates of triggering functions for space-time marked point processes. Contributed Talk, 9th International Workshop on Statistical Seismology, Potsdam, Germany, June 2015.

- Fox, E.W. Modeling e-mail networks and inferring leadership using self-exciting point processes. Contributed Talk, Joint Statistics Meetings, Boston, August 2014.

AWARDS AND HONORS

- Dissertation Year Fellowship, UCLA Graduate Division, 2014–2015.

- Teaching Assistant of the Year Nominee, UCLA Department of Statistics, 2012.

- Benedict Freedman Senior Prize in Mathematics, Occidental College, 2009.

- Distinction for Senior Thesis, Occidental College, 2009.

COMPUTER SKILLS
R, LaTeX, C++, RCpp, R Markdown, Git, UNIX, HTML, Mathematica

CITIZENSHIP
United States of America