Priya Kohli, PhD

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Experience

Assistant Professor of Statistics, Department of Mathematics and Statistics, Connecticut College, New London, CT. August 2012-Present.

Research Intern, Data Mining and Machine Learning Group, Bosch Research and Technology Center Lab, Palo Alto, CA. May-Aug, 2010.

Education

Ph.D. Statistics, Texas A&M University, 2012
Dissertation Advisors: Dr. M. Pourahmadi and Dr. W. Chen.
Dissertation Title: *Prediction and Estimation of Random Fields.*
M.S. Applied Probability and Statistics, Northern Illinois University, 2008
M.Sc. Agricultural Statistics, Indian Agricultural Stat Research Institute, 2006
Dissertation Advisors: Dr. R. Srivastava and Dr. R. Parsad.
Dissertation Title: *Supersaturated Designs.*
B.Sc.(Honors) Physics, Delhi University, India, 2003.

Publications

Refereed Publications

Kohli P., Siver P. A., Marsicano L., Hamer J. and Coffin A.* *Assessment of Long-term Trends for Management of Candlewood Lake, Connecticut, USA*, Lake and Reservoir Management, in press. doi 10.1080/10402381.2017.1335812. Here * denotes an undergraduate student.

Harvill J. L., **Kohli P.** and Ravishanker N. *Clustering nonlinear, nonstationary time series using BSLEX*, Methodology and Computing in Applied Probability, 1-21, in press. doi 0.1007/s11009-016-9528-1. Available here.

Kohli, P. *Fractional Bivariate Exponential Estimator for Long-range Dependent Random Field*, Spatial Statistics, 15, 22-38, 2016. Available here.

Kohli P., Garcia T. P. and Pourahmadi M. *Modeling the Cholesky factors of covariance matrices of multivariate longitudinal data*, Journal of Multivariate Analysis, 145, 87-100, 2016. Available here.

P. Kohli and M. Pourahmadi, *Some prediction problems for stationary random fields with quarter-plane past*, Journal of Multivariate Analysis, 127, 112-125, 2014. Available here.

Garcia T. P., **Kohli P.** and Pourahmadi M. *Regressograms and mean-covariance models for incomplete longitudinal data*, The American Statis-

tician, 66(2), 85-91, 2012. Available here.

Kohli P. and Pourahmadi M., *Nonparametric estimation of the innovation variance and judging the fit of ARMA models*, Economic Time Series: Modeling and Seasonality, Eds. Bell W., Holan S. H. and McElroy T. S., Chapman & Hall/CRC Press, 2011, Book Chapter, Available Here.

Gupta S. and **Kohli P.** *Analysis of supersaturated designs: a review*, Journal of Indian Society of Agricultural Statistics, 62(2), 156-168, 2008. Available here.

Other Publications

Lopez-Anuarbe M. and **Kohli P.** Increasing support for men caregivers in the United States: A national study. Society of Economics of the Household (SEHO), 2017, Accepted Conference Paper.

Kohli P. *Optimal Site Selection and Spatial Prediction*, under revision.

Whitney J., **Kohli P.** and Cangelosi J.* Keep the Talk Going, Dedicated to improving communication about relationships, sexuality, and intimacy, May 2015. Online Report for a book that the first author is working on. Here * denotes an undergraduate student.

Srinivasan S. and **Kohli P.** *System and method for estimation in a multivariate, longitudinal setup*, WO2013126724 A3, 2014. Patent, Available Here.

Srinivasan S. and **Kohli P.** *System and method for estimation of missing data in a multivariate, longitudinal setup*, US 20130226613 A1, 2013. Patent, Available Here.

Zhang Y., Madiri S., Zhang L. and **Kohli P.** *Statistical technique to handle data irregularities in field retroreflectivity of pavement markings*, Transportation Research Board 89th Annual Meeting, #10-3217, 2010, Conference Paper, Available Here.

Working

Increasing support for men caregivers in the United States: A national study, working.

Covariance Modeling and Data Analysis in Multivariate Longitudinal Studies with Application to Clinical Trials, working.

Covariance modeling for incomplete multivariate longitudinal data, working.

Different stages of taste bud development in Axolotls, working.

Biclustering with applications in RNA-sequencing, working.

Invited Presentations

Modeling Dependence in Multivariate Longitudinal Studies, *Faculty at Work*, November 2016, Connecticut College, CT.

Covariance Modeling of Multivariate Longitudinal Data with Application in Clinical Trials, *Celebrating Statistical Innovation and Impact in a World of Big & Small Data*, IISA, December, 2015, Pune, India.

Clustering of Nonlinear and Nonstationary Time Series Using BSLEX, *Statistics Colloquium, Syracuse University*, November 2015, Syracuse University, NY.

Clustering Time Series: A PSLEX-Based Approach at *24th ICSA/Graybill Joint Conference*, June 2015, Fort Collins, Colorado.

Time Series Clustering, *International Conference on Advances in Interdisciplinary Statistics and Combinatorics*, October 2014, Greensboro, NC.

Prediction of Stationary Random Fields with Quarter-Plane Past: A Time-Series Approach, *International Society of Nonparametric Statistics Conference* (ISNPS), June 2014, Spain.

Clustering Financial Time Series, *International Symposium on Business and Industrial Statistics (ISBIS)*, June 2014, Duke University, North Carolina.

Covariance Estimation for Multivariate Longitudinal Data, *Dimension Reduction and High Dimensional Inference*, January 2014, University of Florida, Gainesville, FL.

Covariance Modeling for Incomplete Multivariate Longitudinal Data, *Departmental Colloquium*, Department of Statistics, October 2013, University of Connecticut, Storrs, CT.

Workshops Organized

Organized and conducted a two-day workshop on introducing R for applications in life sciences, Quantitative Life Sciences (QLS), Connecticut College (July 6-7, 2015).

Co-organized and conducted a three-day workshop on introducing the recent advances in statistical techniques for researchers in Biology, Botany and Neuro-science at Connecticut College, New London, CT (January 5-7, 2014).

Professional Memberships

American Statistical Association (ASA), Association for Women in Mathematics (AWM), Eastern North American Region/International Biometric Society (ENAR), Institute of Mathematical Statistics (IMS), International Indian Statistical Association (IISA).