Priya Kohli, PhD

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New London, CT 06320 USA.

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Research Interests

Covariance Modeling, Longitudinal Studies, Time Series, and Missing Data. Applications in RNA-Sequencing, Healthcare, and Environmental Studies.

Academic Appointments

Associate Professor of Statistics, Department of Mathematics and Statistics, Connecticut College, New London, CT. July 2018 - present.

Assistant Professor of Statistics, Department of Mathematics and Statistics, Connecticut College, New London, CT. July 2012 - June 2018.

Research Intern for Smart Healthcare System
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 Title: *Supersaturated Designs.*

B.Sc.(Honors) Physics, Delhi University, India, 2003.

Recent Publications

Refereed Publications

1. Kohli, P., Du, S.*, and Shen, H.* (2021). Graphical models for mean and covariance of multivariate longitudinal data. *Statistics in Medicine*, 15;40(23):4977-4995. R package MLGM.

2. Marazzi, L.*, Kohli, P., and Eastman, D. (2020). Transcriptome dataset for RNA-seq analysis of axolotl embryonic oropharyngeal endoderm explants. *Data in Brief*, 32, 106126.

3. Kohli, P., Marazzi, L.*, and Eastman, D. (2020). Transcriptome analysis of axolotl oropharyngeal explants during taste bud differentiation stage. *Mechanisms of Development.* 161, 103597.

4. Lòpez-Anuarbe M. and Kohli P. (2019).Understanding male caregivers' emotional, financial, and physical burden in the United States. *Healthcare*, 7(2). E72.

5. Kohli P., Siver P. A., Marsicano L., Hamer J. and Coffin A*. (2017). Assessment of long-term trends for management of Candlewood lake, Connecticut, USA. *Lake and Reservoir Management, 33(3), 280-300.*

6. *Harvill J. L., Kohli P., and Ravishanker N. (2017). Clustering nonlinear, nonstationary time series using BSLEX. Methodology and Computing in Applied Probability, 19(3), 935-955.*

*Here * denotes an undergraduate student.*

Working Papers

1. Joint mean-covariance maximum likelihood estimates in multivariate longitudinal data.

2. Mobile Money in Public Health Crisis: Ebola and Lessons for COVID-19 and Beyond.

3. Long-term trends of temperature and precipitation in New England.

Recent Conferences and Events

3rd Annual Health Data Science Symposium at Harvard Brigham and Women's Hospital, Harvard Medical School, Nov. 2021.

Guidelines for Using State-of-the-Art Methods to Estimate Propensity Score and Inverse Probability of Treatment Weights When Drawing Causal Inferences, short course with speakers Beth Ann Griffin and Lane Burgette, Sept. 2021.

- 19th Annual CT Chapter Mini-conference, Borrowing from historical and real world data – latest methodology development and applications, April 2021.

- Machine Learning for Statisticians, Short course with Andy Liaw and Junshui Ma, Feb. 2021.

- Shiny Essentials, two courses, Sept. and Oct. 2020.

- 18th Annual CT Chapter Mini-conference, Yale University, CT, April 22, 2020

- International Conference of Health Policy Statistics (ICHPS), San Diego, CA, Jan. 6-8, 2020.

- 2019 Nonclinical Biostatistics Conference, June 17-19, 2019.

- 33 New England Statistics Symposium (NESS), Hartford, CT, May 15-17, 2019.

- 2019 Rutgers Statistics Symposium, May 2-3, 2019.

- Parsimonious Data-Based Methods for Covariance Estimation in Multivariate Longitudinal Data, NESS, Hartford, May 2019.

- NorthEast Computational Health Summit, Apl. 26, 2019.

- Dependence pattern visualization using regressograms for univariate and multivariate longitudinal studies with applications in clinical trials, Brown University, March 2019.

- Coach for Faculty Success Program, National Center for Faculty Development and Diversity, Jan-Apr 2019.

Service

- President, American Statistical Association, Connecticut Chapter, August 2021-present, and August 2019-August2020.

- Treasurer, American Statistical Association, Connecticut Chapter, August 2020- July 2021.

- Vice President, American Statistical Association, Connecticut Chapter, August 2018-July 2019.

- Elected Member, Council of the New England Statistical Society (NESS), June, 2018-present.

- *Association for Women in Mathematics (AWM)* Mentor, August 2015-present.

- Peer reviewer for the journals *Computational Statistics and Data Analysis, Electronic Journal of Statistics, Journal of Multivariate Analysis, MAA Book Reviews, Mathematical Reviews, Sankhya, Scandavian Journal of Statistics, Statistica Sinica, Statistica Neerlandica, Statistics and Probability Letters, Stochastic Processes and their Applications, Women's Reproductive Health.*

- Chairing Priorities, Planning, and Budget Committee (PPBC), Connecticut College, July, 2021-present.

- Core faculty for Data, Information and Society pathway, Connecticut College.

- Core faculty for Public Health Pathway, Connecticut College.

Professional Memberships:

- American Statistical Association (ASA)

- Caucus for Women in Statistics (CWS)

- Association for Women in Mathematics (AWM)

- International Indian Statistical Association (IISA)

Softwares and Scripting Language:

R (RStudio), SAS, MATLAB, C++, PYTHON.