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Education

Ph.D. Statistics, 2012
Department of Statistics, Texas A&M University, College Station, TX.

M.S. Applied Probability and Statistics, 2008
Division of Statistics, Northern Illinois University, DeKalb, IL.

M.Sc. Agricultural Statistics, 2006
Indian Agricultural Statistics Research Institute, New Delhi, India.

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

**Professional
Experience**

Professor of Statistics, Department of Mathematics and Statistics,
Connecticut College, July 2024 - Present.

Chair, Department of Mathematics and Statistics,
Connecticut College, July 2023 - Present.

Assistant Chair, Department of Mathematics and Statistics,
Connecticut College, July 2021 - June 2023.

Visiting Scientist in Data Science, Data Science Initiative,
Brown University, January - August 2019.

Associate Professor of Statistics, Department of Mathematics and Statistics,
Connecticut College, July 2018 - June 2024.

Assistant Professor of Statistics, Department of Mathematics and Statistics,
Connecticut College, 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-August, 2010.

Instructor, Introductory Statistics, Department of Statistics,
Texas A&M University, January 2009 - May 2012.

Instructor, Introduction to Statistics, Division of Statistics,
Northern Illinois University, January 2008 - December 2008.

**Research
Interests**

Covariance Estimation, Multivariate Longitudinal Data, Missing Data, RNA-Sequencing, and Time Series Analysis. Interdisciplinary work in Financial Modeling for Digital Payment Methods, Faculty Salary Analysis, S&P Stock Returns, Health Care, Ischemic Hepatitis Studies, and Environmental Studies.

Publications

Peer-reviewed Articles

(* Student Co-author)

Recent

Kohli, P., Nguyen, C.* and Timmerman, A.* (2025+). An Analysis of Publicly Available Guidelines on AI at NESAC Institutions.

Hensley, E.*, **Kohli, P.**, and Mukerji, P. (2025+). Mobile money in public health crisis: Ebola and lessons for COVID-19 and beyond. *Technology in Society*, Submitted Revision.

Beard, C.*, Utterback, U.*, **Kohli, P.**, Lee, W. and Ghosh, A. (2024+). Predicting the outcome of Ischemic Hepatitis with real patient data using machine learning tools. *Journal of Machine Learning for Modeling and Computing*. Submitted.

Kohli, P. (2024+). Multivariate longitudinal mean-covariance graphical models. Under Review.

Kohli, P. (2023+). Optimal site selection in spatial prediction. *Spatial Statistics*. Submitted.

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. Software package [MLGM](#).

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.

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

Recent

Conferences

Papers Presented/Co-Presented/Student-Presented and Participated

23rd Annual New England Isolated Statisticians Meeting (NEISM), November 2025.

Multivariate Longitudinal Mean-Covariance Graphical Models, 18th BEER Conference, George Mason University, October 2025.

NESAC Schools AI Tolerance and Future Directions in AI Policy Recommendation, AI and the Liberal Arts Symposium, Connecticut College, October 2025. *0.5em Develop an interactive web-app through Shiny to update the Multivariate Longitudinal Graphical Modeling of Mean and Covariance.*, Intercollegiate Biomathematics Alliance (IBA), Cross-Institutional Undergraduate Research Experience (CURE), June 2025.

How a Collaboration with Institutional Research Can Inform Strategic Initiatives, The Annapolis Group of Liberal Arts Colleges, Annapolis, MD, June 2024,

International Day of Statistics and Data Science, hosted by Caucus for Women in Statistics and Data Science and American Statistical Association, October, 2023.

National AI-Campus Chairs Council Meeting, Virtual, January, 2023. *A Computational Modeling Approach to Understand the Outcome of Ischaemic Hepatitis* presented at the 2023 SIAM Conference on Applications of Dynamical Systems (DS23), May 2023.

Neural and Cognitive Development in a Rodent Model of PTSD from Maternal Maltreatment presented at the 36th Annual NEURON Conference, Quinnipiac University, North Haven, CT, United States. April 23, 2023.

Mobile Money: Innovations in Finance and Pandemic Lessons from Ebola to COVID-19 presented at the Eastern Economic Association Meetings, February 23-26, 2023, New York, NY.

Organized/Co-organized

Program Committee Member, 38th New England Statistics Symposium (NESS), May 2025, New Haven, CT.

Program Committee Member, 37th New England Statistics Symposium (NESS), May, 2024, University of Connecticut, Storrs, CT.

Innovative Statistical Modeling with Applications in Epidemiology and Public Health Session at the 37th New England Statistics Symposium (NESS), May, 2024, University of Connecticut, Storrs, CT.

DataFest, American Statistical Association, Wesleyan University, April 2025.

Curriculum Development

Major/Minor: Statistics and Data Science (SDS).

Pathways: Core Faculty Member for the Data, Information, Society and Public Health.

New Courses Developed: Introduction to Time Series Analysis, Statistical Computing with R, Probability and Statistical Models, Statistical Consulting, Statistical Machine Learning (Co-developed), Statistical Research, First Year Seminar on Data, Data, Everywhere: Understanding the World Through Data (canceled to offer SDS core course).

Recent Service Connecticut College

Faculty Steering and Conference Committee (FSCC), Chair July 2025-Present and Chair-Elect July 2024-July 2025.

Priorities, Planning, and Budget Committee (PPBC), Chair, July 2021 - June, 2023, and Elected Member, July 2019 - December 2023.

STEM Committee Co-Chair, Fall 2023.

Search Committee Member, VP Finance and Administration, July 2022 - March 2023.

Search Committee Member, Quantitative Center Director at Academic Resource Center, July 2022 - May 2023.

All-College Symposium: Evaluator and Moderator, 2022-2024.

Profession

American Statistical Association, Connecticut Chapter, Fellow, August 2023-Present.

American Statistical Association, Connecticut Chapter, Ex-Officio and Committee Members, August 2022 - August 2023.

American Statistical Association, Connecticut Chapter, President, August 2021 - August 2022, and August 2019 - August 2020.

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

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

New England Statistical Society (NESS), Elected Council Member, June 2018-2022.

Rhode Island Regional Academic Institutions Group for Artificial Intelligence, Member, August 2022-Present

Caucus for Women in Statistics, Mentor, 2017 - Present.

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

Peer Reviewer: AIMS Mathematics, Biostatistics, Computational Statistics and Data Analysis, Econometric Theory, Electronic Journal of Statistics, Journal of Multivariate Analysis, MAA Book Reviews, Mathematical Reviews, Sankhya, Scandinavian Journal of Statistic, Statistica Sinica, Statistica Neerlandica, Statistics and Probability Letters, Statistics in Medicine, Stochastic Processes and their Applications, and Women's Reproductive Health.

Professional Memberships: American Statistical Association (ASA), Association for Women in Mathematics (AWM), Caucus for Women in Statistics (CWS), and International Indian Statistical Association (IISA). R

Software and Scripting Language: (RStudio), SAS, SPSS, MATLAB, C++, and PYTHON.

Professional Development Next Stages Next Steps, Higher Education Resource Services, Washington DC, January 2025.
HERS Leadership Institute, Bridgewater State University, MA, June 2023.
National Center for Faculty Development and Diversity (NCFDD) (2017-2020)

- Faculty Success Program Alumni Program, Fall 2020.
- Post-Tenure Pathfinders, Fall 2018.
- Faculty Success Program, Summer 2017.