Curriculum Vitae
Jamshid Namdari

US citizen
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Department of Biostatistics & Bioinformatics
Rollins School of public health
Emory University

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Research Interests:

High Dimensional Statistics, Machine Learning, Mathematics of Data Science, Spectral Methods, Signal and Image Analysis, Dynamic Learning and Inference, Point Process Theory and Applications, Random Matrix Theory, Time Series Analysis, Computational Neuroscience.

Education:

Ph.D.	Statistics, University of California Davis, 2018 Dissertation: *Estimation of Spectral Distributions of a Class of High-Dimensional Linear Processes* Advisors: Alexander Aue, Ph.D. and Debashis Paul, Ph.D.
M.S.	Statistics, University of California Davis, 2013
B.S.	Statistics, Shiraz University, 2006

Appointments:

2023-present	**Postdoctoral Fellow** Department of Biostatistics and Bioinformatics, Rollins School of Public Health, Emory University Supervisors: Robert Krafty, Ph.D. and Amita Manatunga, Ph.D.
2018-2023	**Lecturer** Department of Statistics, University of California Davis

Publications and Preprints:

P1. **Jamshid Namdari**, Debashis Paul, and Lili Wang (2021), "High-Dimensional Linear Models: A Random Matrix Perspective," *Sankhya A: The Indian Journal of Statistics*, Springer; Indian Statistical Institute, vol. 83(2), pages 645-695, August.

P2. **Jamshid Namdari**, Amita Manatunga, Fabio Ferrarelli, and Robert Krafty (2024), "Localized Sparse Principal Component Analysis of Multivariate Time Series in Frequency Domain," *Journal of the American Statistical Association*. Invited Revision.

P3. **Jamshid Namdari**, Alexander Aue, and Debashis Paul, "Spectral Estimation for High-Dimensional Linear Processes." Submitted.

P4. **Jamshid Namdari**, Robert Krafty, and Amita Manatunga (2025), "P^3LS: Point Process Partial Least Squares," Submitted.

P5. Sarah T. Stahl, Emilee Croswell, Elizabeth Campbell, Marie Anne Gebara, Charles F. Reynolds III, Bruce Rollman, Stephen F. Smagula, **Jamshid Namdari**, Robert T. Krafty, "Internet-delivered Behavioral Rhythm Intervention Improves Mood in Older Bereaved Older Adults: Results from the WELL Randomized Clinical Trial", Submitted.

Manuscripts in Preparation

W1. **Jamshid Namdari**, Anik Roy, Robert Krafty, and Amita Manatunga (2025), "MLP^3LS: Multilevel Point Process Partial Least Squares".

W2. **Jamshid Namdari**, Amita Manatunga, Fabio Ferrarelli, and Robert Krafty (2025), "Multi-Subject Principal Component Analysis of Multivariate Time Series in Frequency Domain".

Software:

LSPCA R-package for manuscript P2.

ARMA_LSD MATLAB-toolbox for manuscript P3.

P3LS R-package for manuscript P4.

Presentations:

Jamshid Namdari, "Localized Sparse Principal Component Analysis of Multivariate Time Series in Frequency Domain", poster presentation at the Georgia Statistics Day at the University of Georgia, October 2025.

Jamshid Namdari, "Localized Sparse Principal Component Analysis of Multivariate Time Series in Frequency Domain", poster presentation at the NBER-NSF Time Series at Rutger University, September 2025.

Jamshid Namdari, "Localized Sparse Principal Component Analysis of Multivariate Time Series in Frequency Domain", Texas A&M, September 2025.

Jamshid Namdari, "Localized Sparse Principal Component Analysis of Multivariate Time Series in Frequency Domain", Joint Statistical Meeting (JSM), August 2025.

Jamshid Namdari, “P3LS: Point Process Partial Least Squares” Eastern North American Region (ENAR), 2025 Spring Meeting.

Jamshid Namdari, “Localized Sparse Principal Component Analysis of Multivariate Time Series in Frequency Domain”, Joint Statistical Meeting (JSM), August 2024.

Jamshid Namdari, “Localized Sparse Principal Component Analysis of Multivariate Time Series in Frequency Domain”, Eastern North American Region (ENAR), 2024 Spring Meeting.

Jamshid Namdari, “Spectral estimation for high-dimensional linear processes”, 4th International Conference on Econometric and Statistics (EcoSta), June 2021.

Jamshid Namdari, “Spectral estimation for high-dimensional linear processes”, International Indian Statistical Association (IISA), December 2019.

Jamshid Namdari, “Spectral estimation for high-dimensional linear processes”, International Indian Statistical Association (IISA), May 2018.

Jamshid Namdari, “Spectral estimation for high-dimensional linear processes”, Poster presentation at Peter Hall memorial conference at UC Davis, September 2016.

Teaching Experience:

University of California Davis:

Applied Time Series Analysis (STA 137) (4 times) (75-150 students)
Applied Multivariate Statistical Analysis (STA 135) (1 time) (110 students)
Introduction to Mathematical Statistics (STA 131C) (1 time) (58 students)
Mathematical Statistics: Brief Course (STA 130B) (1 time) (81 students)
Applied Statistics for Biological Sciences (STA 100) (1 time) (332 students)
Elementary Statistics (STA 13) (6 times) (300-420 students)
Applied Statistics for Business and Economics (STA 103) (9 times) (120-220 students)

Emory University:

Linear Model Theory (PhD level) (Guest lecturer) (three times) (8-10 students)

Mentorship Experience:

I have acted as a mentor to a postdoctoral fellow in the department of Biostatistics and Bioinformatics at Emory University.

Other Professional Activities:

Evaluator, Poster Competition, ENAR, 2025 Spring Meeting.
Assisted in biostatistical aspects of a new NIH grant application, May 2024
Evaluator, Poster Competition, Georgia Statistics Day, Emory University, October 2024
Reviewer for Biometrika, Journal of Statistical Planning and Inference, and
SIAM Journal on Mathematics of Data Science

Fellowship:

Research Training Group (RTG) fellowship for academic year 2013-2014