
Maryclare Griffin

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Education

University of Washington , Seattle, WA Ph.D., Statistics Advisor: Peter Hoff, Thesis Title: “Model-Based Penalized Regression”	2013-2018
Duke University , Durham, NC Visiting Ph.D. Student	2016-2018
University of Chicago , Chicago, IL B.A., Economics with Honors, Statistics	2008-2012

Employment

Department of Mathematics and Statistics University of Massachusetts Amherst Assistant Professor	2019-Present
Center for Applied Mathematics Cornell University Postdoctoral Associate	2018-2019
Economics Research Center University of Chicago Research Assistant with Dr. James Heckman	2012-2013

Publications

Published

Griffin M., Hoff, P. D. (2019) “[Testing Sparsity-Inducing Penalties.](#)”
Journal of Computational and Graphical Statistics.

Griffin M., Hoff, P. D. (2019) “[Lasso ANOVA Decompositions for Matrix and Tensor Data.](#)”
Computational Statistics and Data Analysis. 137:181-194

Griffin M., Gile K. J., Fredriksen-Goldsen K., Handcock M. S., Erosheva E. A. (2018) “[A simulation-based framework for assessing the feasibility of respondent-driven sampling for estimating characteristics in populations of lesbian, gay and bisexual older adults.](#)”
Annals of Applied Statistics. 12(4):2252-2278.

Holstein, C., Griffin M., Hong J., Sampson P. (2015) “[A Statistical Method for Determining and Comparing Limits of Detection of Bioassays.](#)”
Analytical Chemistry. 87(19):9795-9801.

Preprints

Griffin M., Samorodnitsky, G., Matteson, David S. “[Likelihood Inference for Possibly Non-Stationary Processes via Adaptive Overdifferencing.](#)”
Submitted.

Zhang, W., Griffin M., Matteson, David S. “[Modeling a Nonlinear Biophysical Trend Followed by Long-Memory Equilibrium with Unknown Change Point.](#)”
Submitted.

McClure, L. A., Benn, E. K.T., Griffin, M., LaLonde D., Lee J., Morton, S. C., Opsomer J. D., Santos R., Utlaut T. L., “ ‘What was most unpleasant to me was the fact that I felt powerless:’ One Professional Society’s Reckoning with Sexual Misconduct”

Submitted.

Griffin M., Hoff, P. D. “**Structured Shrinkage Priors.**”

In preparation for submission.

Published Software

Griffin M. **gnorm**: Generalized Normal/Exponential Power Distribution for R, version 1.0.0.

Honors and Awards

Mutual Mentoring Team Grant	2020
National Science Foundation Graduate Research Fellowship	2013-2018
Frontiers in Forecasting Best Poster Prize	2018
Women in Statistics and Data Science Conference Travel Award	2016
Survey Research Methods, Government Statistics, and Social Statistics Sections Student Paper Award	2015
University of Washington, Blalock Fellowship	2013
University of Chicago, Goldberg Award in Economics	2012

Teaching Experience

University of Massachusetts Amherst

Instructor for STAT 525-01, STAT525-02: Regression Analysis	Spring 2021
Instructor for STAT 525-02: Regression Analysis	Fall 2020
Instructor for STAT 525-01: Regression Analysis	Spring 2020
Instructor for STATISTC 697TS: Time Series Analysis and Applications	Spring 2020

Cornell University

	Spring 2019
Instructor for STSCI4550/ILRST4550/ORIE5550: Applied Time Series Analysis	

University of Washington

	Spring 2016
Teaching Assistant for CSS&S564: Bayesian Statistics	

Presentations

Invited Talks

Structured Shrinkage Priors.

Department of Statistical Science,

University College London, London, UK; November 2020. (Virtual)

Estimation of Possibly Non-Stationary Long Memory Processes via Adaptive Overdifferencing.

Paul H. Chook Department of Information Systems and Statistics,

Baruch College, New York, NY; October 2020. (Virtual)

Estimation of Possibly Non-Stationary Long Memory Processes via Adaptive Overdifferencing.

*Department of Mathematics,
University of Maryland, College Park MD; October 2020. (Virtual)*

A review of the computational aspects of penalized regression from a model-based perspective.

*Department of Mathematics and Statistics, Applied Mathematics and Computation
Seminar,
University of Massachusetts Amherst, Amherst, MA; February 2020.*

Estimation for possibly non-stationary long memory processes.

*Department of Biostatistics and Epidemiology,
University of Massachusetts Amherst, Amherst, MA; January 2020.*

Estimation for possibly non-stationary long memory processes.

*Computational Social Science Institute,
University of Massachusetts Amherst, Amherst, MA; November 2019.*

An Introduction to Model-Based Penalized Regression.

*Department of Mathematics and Statistics,
Amherst College, Amherst, MA; November 2019.*

Too Many Predictors, Too Few Responses.

*Research Bytes @ MassMutual,
Western Mass Statistics and Data Science, Amherst, MA; November 2019.*

Structured Shrinkage Priors.

*Department of Statistics,
George Mason University, Fairfax, VA; September 2019.*

Model-Based Penalized Regression.

*Department of Mathematics and Statistics,
University of Massachusetts Amherst, Amherst, MA; December 2018.*

Testing Sparsity-Inducing Penalties.

*Department of Biostatistics and Computational Biology Departmental Colloquia,
University of Rochester, Rochester, NY; October 2018.*

Beyond the Bayesian Lasso: A Review of Continuous Shrinkage Priors.

Joint Statistical Meetings, Vancouver, WA; August 2018.

Invited Panels

Using Data to Inform the ASA's Policy on Sexual Misconduct.

International Conference on Health Policy Statistics, San Diego, CA; January 2020.

Contributed/Topic Contributed Talks

Bayesian generalized linear models for correlated data with fewer latent variables.

CMStatistics, London, UK; December 2020. (Virtual)

Structured Shrinkage Priors.

Joint Statistical Meetings, Denver, CO; August 2019.

Long Memory Time Series Methods for the Analysis of Electronic Impedance Sensing Data.

*Western North American Region of The International Biometric Society Conference.
Portland, OR; June 2019.*

Structured Shrinkage Priors.

New England Statistics Symposium, Hartford, CT; May 2019.

Model-Based Testing of Sparsity Inducing Penalties.

*Western North American Region of The International Biometric Society Conference.
Santa Fe, NM; June 2017.*

Using Hierarchical Models to Understand P300-Wave-Based Brain-Computer Interface Performance Among Disabled Adults.

Joint Statistical Meetings, Chicago, IL; August 2016.

Assessing Feasibility of Respondent-Driven Sampling Using Pilot Data with an Application to Older Lesbian, Gay, and Bisexual Adults.

Joint Statistical Meetings, Seattle, WA; August 2015.

Poster Presentations

Testing Sparsity-Inducing Penalties.

*21st Meeting of New Researchers in Statistics and Probability.
Fort Collins, CO, August 2019.*

Pathwise Coordinate Descent for Power Penalized Regression.

*Non-convex Optimization and Deep Learning Workshop.
Boston, MA, January 2019.*

Testing Sparsity-Inducing Penalties.

*Bridging the Divide, Machine Learning in Medicine Symposium.
Ithaca, NY, September 2018.*

Testing Sparsity-Inducing Penalties.

*Cornell Day of Statistics.
Ithaca, NY, September 2018.*

Testing Sparsity-Inducing Penalties.

*Frontiers in Forecasting, Institute for Mathematics and Its Applications.
Minneapolis, MN, February 2018.*

Sparse, Structured Matrix Estimation via ℓ_1 Penalization of ANOVA Decomposition.

*Opening Workshop of the 2016-2017 Program on Optimization, SAMSI.
Research Triangle Park, NC, September 2016.*

Service and Affiliations

University of Massachusetts Amherst

Visiting Assistant Professor Faculty Search Committee 2020-2021

Five College Statistics Liason 2020-2021

Climate Committee 2019-2020

Statistics & Probability Seminar Planning Committee 2019-2020

Committee of Presidents of Statistical Societies (COPSS)

COPSS Diversity, Equity, and Inclusion (DEI) Task Force 2020-2021

American Statistical Association

ASA Task Force on Sexual Harassment and Assault 2018-2019

University of Washington

StatCom Member 2016-2018

Graduate Student Representative 2014-2015

Graduate and Professional Student Senate Representative 2013-2014

Workshops and Conferences

Invited Session Organizer, “Contemporary Mixed Model Methodology and Applications.”
Joint Statistical Meetings, Philadelphia, PA; August 2020.

Invited Session Organizer, “Modern and Practical Solutions to Difficult High Dimensional Regression Problems.”
Joint Statistical Meetings, Denver, CO; August 2019.

Invited Session Organizer/Chair, “Cutting Edge Methods for Modern Problems in Statistical Genetics and Genomics”
Western North American Region of The International Biometric Society Conference, Portland, OR; June 2019.

Session Chair, “Modeling.”
Joint Statistical Meetings, Vancouver, BC; August 2018.

Session Chair, “Semiparametric Modeling in Biometric Data.”
Joint Statistical Meetings, Baltimore, MD; August 2017.

Session Chair, “Model Selection and Sparsity.”
Joint Statistical Meetings, Seattle, WA; August 2015.

Reviewer

Annals of Applied Statistics
Biometrika
Biostatistics
Journal of the American Statistical Association, Theory and Methods
Journal of Computational and Graphical Statistics
Statistica Sinica
Statistics Surveys
NSF 2020

Member

American Statistical Association
Institute of Mathematical Statistics
Caucus for Women in Statistics
International Biometric Society