Maryclare Griffin

Postdoctoral Associate
Cornell University
Center for Applied Mathematics
657 Rhodes Hall
Ithaca, NY 14853

<http://maryclare.github.io>
(508)-314-1007
maryclare@cornell.edu

Education

University of Washington, Seattle, WA · 2013-2018
Ph.D., Statistics
Advisor: Peter Hoff, Thesis Title: "Model-Based Penalized Regression"

Duke University, Durham, NC · 2016-2018
Visiting Ph.D. Student

University of Chicago, Chicago, IL · 2008-2012
B.A., Economics with Honors, Statistics

Employment

Economics Research Center, University of Chicago · 2012-2013
Research Assistant with Dr. James Heckman

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.

Griffin M., Erosheva E. A., Fredriksen-Goldsen K., Gile K., Handcock M. (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., 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

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

Department of Statistics, Cornell University   Spring 2019
Instructor for STSCI4550/ILRST4550/ORIE5550: Applied Time Series Analysis

Department of Statistics, University of Washington   Spring 2016
Teaching Assistant for CSS&S564: Bayesian Statistics

Presentations

Invited Talks

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.

Contributed/Topic Contributed Talks

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 Washington

StatCom Member	2016-2018
Graduate Student Representative	2014-2015
Graduate and Professional Student Senate Representative	2013-2014

Workshops and Conferences

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

 Biometrika
 Journal of the American Statistical Association, Theory and Methods
 Journal of Computational and Graphical Statistics
 Statistics Surveys

Member

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