

## Maryclare Griffin

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Cornell University  
Center for Applied Mathematics  
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### Education

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

### Employment

<b>Economics Research Center, University of Chicago</b> Research Assistant with Dr. James Heckman	2012-2013
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### Publications

#### Published

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. "[Testing Sparsity-Inducing Penalties.](#)"  
*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

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

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.*

### Topic Contributed Talks

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

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  $\ell_1$  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.*

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