Gemma E. Moran

CONTACT INFORMATION	416 S. W. Mudd Building 500 West 120th Street New York, NY, 10027, USA	+1 (267) 304-4 gm2918@columbia.	
EMPLOYMENT	Columbia University Postdoctoral Research Scientist Supervisor: Dave Blei	New York, NY, U August 2019 - Pres	
EDUCATION	The Wharton School, University of Pennsylvania	Philadelphia, PA, U	JSA
	Ph.D. Statistics Thesis Title: "Bayesian Approaches for Modeling Variation" Thesis Advisors: Edward George and Veronika Ročková	May 2	019
	The University of Sydney	Sydney, NSW, Austra	alia
	B.Sc. Advanced Mathematics (First Class Honours) Majors: Mathematics, Statistics Thesis Advisor: John Ormerod	November 2	013
Papers	 Moran, G. E., Ročková, V. and George, E. I. (2019) "Spike-and-Slab Lasso Biclustering." Sumitted Bai, R., Moran, G. E., Antonelli, J., Chen, Y., Boland, M. R. (2019) "Spike-and-Slab Groud Lassos for Grouped Regression and Sparse Generalized Additive Models" In revision at Journ of the American Statistical Association [arXiv:1903.01979] 		
	• Moran, G. E., Ročková, V. and George, E. I., (2018), "Variance prior forms for high-dimensional Bayesian variable selection" <i>Bayesian Analysis</i> [arXiv:1801.03019]		
	 Ročková, V., Moran, G. E., and George, E. I., (2016), "Determinantal Regularization for Ensemble Variable Selection" Proceedings of the 19th International Conference on Artificial Intelligence and Statistics (AISTATS), pages 1105-1113, Cadiz, Spain. 		
SOFTWARE	- SSLASSO (R Package) Ročková, V. and $\underline{\text{Moran, G. E.}}$ [CRAN.R-project.org/package=SSLASSO]		
Awards	• Donald S. Murray Prize for excellence in teaching, Statistics Depa	ertment, Wharton 2	018
	• Honorable Mention for Best Talk at the Bayesian Young Statistics	ans Meeting 2	018
	• Wharton Doctoral Program Fellowship	2	2014
	• The George Allen Scholarship for Mathematical Statistics, the Un	iversity of Sydney 2	013
Presentations	• "Spike-and-Slab Lasso Biclustering" Joint Statistical Meetings, Va 2018.	ncouver, BC, Canada. Aug	gust

• "Spike-and-Slab Lasso Biclustering" Bayesian Young Statisticians Meeting, University of War-

wick, UK. July 2018.

- "On variance estimation for Bayesian variable selection" International Society for Bayesian Analysis World Meeting, Edinburgh, Scotland. June 2018. (Poster)
- "Independence Variance Priors for Penalized Likelihood Variable Selection" Joint Statistical Meetings, Baltimore, MA. July 2017.
- "Determinantal Regularization for Ensemble Variable Selection." 19th International Conference on Artificial Intelligence and Statistics, Cadiz, Spain. May 2016. (Poster)

TEACHING EXPERIENCE

Teaching Assistant

The Wharton School, University of Pennsylvania

- STAT621: Accelerated Regression Analysis for Business (Fall 2018)
- STAT613: Regression Analysis for Business (Fall 2017, Fall 2018)
- STAT422: Predictive Analytics (Spring 2017)
- STAT101: Introductory Business Statistics (Fall 2016)

Recitation Instructor

The Wharton School, University of Pennsylvania

• STAT111: Introductory Statistics (Spring 2018). Rating: 3.1/4

The University of Sydney

- MATH1015: Biostatistics (Semester 1, 2013)
- MATH1005: Statistics (Semester 2, 2013)

Lecturer

Wharton Moneyball Academy (Summer 2017, 2018)

Contributed to and taught course on data analysis in R as part of summer program in statistics and sports for high school students

Professional Experience

Computational Informatics Division, CSIRO

Sydney, NSW, Australia

Summer research scholar

11/2013 - 02/2014

Research topic: Markov chain Monte Carlo and generalized linear models for RNA-seq data

Australian Mathematical Sciences Institute

Sydney, NSW, Australia

Summer research scholar

12/2012 - 02/2013

Research topic: Theory for Gaussian variational approximation of Bayesian generalized linear models