Kory D. Johnson

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Academic Positions

2016 - present	**The University of Vienna** **Department of Statistics and Operations Research** Post-Doctoral Fellow

Education

2011 - 2016	**The Wharton School, University of Pennsylvania** M.A. Statistics; Ph.D., Statistics Dissertation Title: *Discrete Methods in Statistics: Feature Selection and Fairness-Aware Data Mining* Advisers: Professors Robert Stine and Dean Foster
2007 - 2011	**The Wharton School, University of Pennsylvania** B.S. in Economics summa cum laude; Statistics, minor in Mathematics **The College of Arts and Sciences, University of Pennsylvania** B.A. summa cum laude with Distinction in Economics and Philosophy

Publications

K. D. Johnson, R. A. Stine, and D. P. Foster. Impartial Predictive Modeling: Ensuring Fairness in Arbitrary Models. *ArXiv e-prints*, October 2016. https://arxiv.org/abs/1608.00528.

Lawrence D. Brown and Kory D. Johnson. Comment. *Journal of the American Statistical Association*, 111(514):614–617, 2016. URL http://dx.doi.org/10.1080/01621459.2016.1182788.

K. D. Johnson, R. A. Stine, and D. P. Foster. Submodularity in Statistics: Comparing the Success of Model Selection Methods. *ArXiv e-prints*, October 2015a. http://arxiv.org/abs/1510.06301.

K. D. Johnson, R. A. Stine, and D. P. Foster. Revisiting Alpha-Investing: Conditionally Valid Stepwise Regression. *ArXiv e-prints*, October 2015b. http://arxiv.org/abs/1510.06322.

K. D. Johnson, D. Lin, L. H. Ungar, D. P. Foster, and R. A. Stine. A Risk Ratio Comparison of l_0 and l_1 Penalized Regression. *ArXiv e-prints*, October 2015c. http://arxiv.org/abs/1510.06319.

In Preparation

Danijel Kivaranovic and Kory D. Johnson. Efficient and Provably Valid Prediction Intervals for Deep Neural Networks. In Preparation, 2019.

Kory D. Johnson. Controlling FWER in Stepwise Regression Using Multiple Comparisons. In Preparation, 2018.

Presentations

Revisiting Alpha-Investing: mFDR Control in Polynomial Regression, December 2018. Computational and Methodological Statistics 2018. Pisa, Italy. Invited Talk.

Comment: Exact Post-selection Inference for Sequential Regression Procedures, November 2018. Larry Brown Memorial Workshop, Young Researcher Session. Philadelphia, USA.

Stopping Stepwise Regression with the Sequential Rejection Principle, September 2018. Royal Statistical Society 2018 International Conference. Cardiff, Wales. Invited Talk.

Sequential Testing for Inference During Model Selection, July 2018. Workshop on Model Selection, Regularization, and Inference. Vienna, Austria.

Controlling FWER in Stepwise Regression Using Multiple Comparisons, December 2017. Computational and Methodological Statistics 2018. London, England. Invited Talk.

Valid Stepwise Regression Using Sequential Testing, July 2017. Joint Statistical Meetings. Baltimore, USA.

Valid Stepwise Regression Using Sequential Testing, July 2017. Poster Session for IMS New Researchers in Statistics and Probability. Baltimore, USA.

Sequential Testing for Inference During Model Selection, March 2017. University of Vienna Department of Statistics and Operations Research. Vienna, Austria. Colloquium Presentation.

Sequential Testing for Inference During Model Selection, April 2016. Ph.D. Dissertation Defense. Philadelphia, USA.

Discrete Methods in Statistics: Feature Selection and Fairness Aware Data Mining, November 2015. Ph.D. Dissertation Proposal Defense. Philadelphia, USA.

Submodularity in Statistics, August 2015. Joint Statistical Meeting. Seattle, USA.

Submodularity in Statistics: Comparing the Success of Model Selection Methods, May 2015. Student Seminar Day. University of Pennsylvania.

Introduction to Submodularity, May 2014. Student Seminar Day. University of Pennsylvania.

In Defense of l_0: Greedy Feature Selection, April 2014. SIAM International Conference on Data Mining. Poster in Doctoral Forum. Phiadelphia, USA.

Revisiting Alpha Investing: Principled, Greedy Feature Selection, August 2013. Second Year Paper Presentation. University of Pennsylvania.

Exponential Smooth as an Approximate Half-Space Checking Rule, August 2012. First Year Paper Presentation. University of Pennsylvania.

Teaching Experience

Instructor: Lecturer

Winter 2018	Statistical Programming: Introduction to R
Summer 2018	Large-Scale Inference (masters-course)
Winter 2017	Data Science Case Studies in R (masters-course)
Summer 2017	Nonparametric Inference (masters-course)
Summer 2015	Introductory Business Statistics

Instructor: Exercise Course

Summer 2017	Statistical Inference
Winter 2016	Linear Models
Spring 2015	Introductory Statistics
Spring 2012	Introductory Statistics

Teaching Assistant

Spring 2016	Modern Regression for Social, Behavioral, and Biological Sciences
Fall 2015	Introductory Business Statistics
Fall 2014	Introductory Business Statistics
Spring 2014	Applied Econometrics II
Fall 2013	Intermediate Statistics
Spring 2013	Introductory Business Statistics
Fall 2012	Applied Econometrics I
Fall 2011	Introductory Business Statistics

Honors and Awards

5/2014	SIAM Student Travel Award. SIAM International Conference on Data Mining.
5/2011	Elected to Phi Beta Kappa. University of Pennsylvania.

Professional Development

10/2014	**Teacher Development Program II**
	Four module workshop to improve presentation and teaching skills.
5/2011	**Teacher Development Program I**
	Half-day workshop on communication skills.

Other Experience

7/2009 - 8/2009	*Marketing Intern*, Citibank Singapore. Singapore, SG.
9/2008 - 5/2009	*Consultant*, Wharton Small Business Development Center. Philadelphia, PA.

Technical Skills

- Extensive experience in R and LATEX.

- Some experience in Python, Matlab, SQL, C♯, and VBA.

Other Interests

Rock climbing and mountaineering. For highlights from recent trips, click here.