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Education

Carnegie Mellon University

Pittsburgh, PA

2014-Present

PhD in Statistics (In Progress)

• Advisers: Dr. Kathryn Roeder (Carnegie Mellon University), Dr. Han Liu (Princeton University)

Princeton University

Princeton, NJ

B.S.E. IN OPERATIONS RESEARCH AND FINANCIAL ENGINEERING

2010-2014

• Certificate in Statistics and Machine Learning, Applications of Computing

· Graduated with Honors

Awards & Distinguishments

2015 Interviewed Researcher, Spectrum News (Autism Research Magazine, about results at ASHG Conference)

Baltimore, MD

2014 **Award Recipient**, Kenneth H. Condit Prize (Excellence in service to department)

Princeton, NJ

Publications.

Longitudinal Gaussian Graphical Models for Autism Risk Gene Detection

Journal of American Statistical Association (In Submission)

2016 (Applications and Case Study)

KEVIN LIN, HAN LIU, KATHRYN ROEDER

- · Refine existing graphical model techniques adapted for heterogeneous brain microarray expression data
- Develop a procedure to combine heterogeneous samples
- Improve autism risk gene detection by showing detecting genes are more tightly clustered and a larger percentage of genes were independently found by another lab

Approximate Recovery in Changepoint Problems, from ℓ_2 Estimation Error Rates

Annals of Statistics (In Submission)

KEVIN LIN, JAMES SHARPNACK, ALESSANDRO RINALDO, RYAN J. TIBSHIRANI

2016 (arXiv: 1606.06746)

- Prove the asymptotic rate of fused lasso under fixed number of jumps
- · Bound the Hausdorff distance between the true and estimated jump locations based on the error rate of the mean function estimation
- Extend above results to trend filtering and image denoising

Revisiting compressed sensing: Exploiting the efficiency of simplex and sparsification methods

Mathematical Programming

Computation

Robert Vanderbei, Kevin Lin, Han Liu, Lie Wang

2016: Volume 8, Issue 3

- · Advocate to use a specialized parametric simplex method for compressed sensing when the true signal is extremely sparse
- Propose to use sensing matrices that is the Kronecker product of two smaller sensing matrices to enhance computational speed of solvers that
 exploit sparsity in the optimization problem

Presentation

Joint Statistical Meeting

Criicago, iL

CONTRIBUTED SESSION SPEAKER

Aug. 2016

 Presenting "Longitudinal Gaussian Graphical Model for Autism Risk Gene Detection" in session "Network and Graphical Models for Analysis of Genomic Data"

American Society of Human Genetics

Baltimore, MD

POSTER PRESENTER

Oct. 2015

• Presenting "Longitudinal Gaussian Graphical Model Integrating Gene Expression and Sequencing Data for Autism Risk Gene Detection"

SEPTEMBER 23, 2016 KEVIN LIN · CURRICULUM VITAE

Teaching Experience _____

2015-16	Teaching Assistant, "Statistical Computing" under Dr. Ryan Tibshirani	Carnegie Mellon U.
2015	Teaching Assistant , "Probability Theory and Random Processes" under Dr. Alessandro Rinaldo	Carnegie Mellon U.
2014	Teaching Assistant , "Introduction to Probability and Statistical Inference" under Dr. Chad Schafer	Carnegie Mellon U.
2012-14	Course Designer, "Analysis of Big Data" under Dr. Han Liu	Princeton U.

Skills_____

Programming R, C/C++, JAVA, Python, Matlab, LaTeX

Web Drupal 7

Profession Affiliation

Member, American Statistical Association **Member,** American Society of Human Genetics

Professional Service _____

Reviewer, Biometrika **Reviewer,** Annals of Statistics