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Education

Carnegie Mellon University Pittsburgh, PA

PHD IN STATISTICS (IN PROGRESS)

2014-Present

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

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

Princeton, NJ

2010-2014

- Certificate in Statistics and Machine Learning, Applications of Computing
- · Graduated with Honors

Princeton University

Awards & Distinguishments

2017	"Statistical Computing" in Fall 2016)	Pittsburgh, PA
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 N.I.

Teaching Assistant Award Recipient, Carnegie Mellon University, Statistics Department (Service for

Publications

Longitudinal Gaussian Graphical Models for Autism Risk Gene Detection

Journal of American Statistical Association (In Submission)

KEVIN LIN, HAN LIU, KATHRYN ROEDER

2016 (Applications and Case Study)

- · 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

Baltimore, MD

CONTRIBUTED SESSION SPEAKER

To be given in Aug. 2017

· Presenting "Hypothesis Testing for Simultaneous Variable Clustering and Correlation Network Estimation, with Application to Gene Co-Expression Networks" in session "Selected Topics on Hypothesis Testing and Statistical Inference'

Joint Statistical Meeting

Chicago, 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"

KEVIN LIN · CURRICULUM VITAE MAY 23, 2017

TECHNICAL SESSION SPEAKER Aug. 2014

• Presenting "Optimization for Compressed Sensing: New Insights and Alternatives" in session "Algorithms for Big Data"

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