Li, Chunlin

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INTERESTS

Causal discovery & inference
Statistical computing
Statistical genetics & genomics

POSITIONS

Assistant Professor of Statistics (tenure track), Iowa State University 2023 –

Research Associate, School of Statistics, University of Minnesota 2022 – 2023

EDUCATION

Ph.D. in Statistics, University of Minnesota 2017 – 2022

B.S. (Hons) in Computational Mathematics, City University of Hong Kong 2013 – 2017

PUBLICATIONS & MANUSCRIPTS

*Co-first author, **Corresponding author.

Manuscripts (available upon request)

[5] **Li, C.**, Yang, Y., Shen, X., Pan, W., and Wu, C.** glmtlp: An R package for truncated Lasso penalized estimation and inference. *To be submitted to Journal of Statistical Software*.
DOI: forthcoming.
Code: https://github.com/chunlinli/glmtlp.

[4] Xu, Z.*, **Li, C.***, Chi, S., Yang, T.**, and Wei, P.** Speeding up interval estimation for R2-based mediation effect of high-dimensional mediators via cross-fitting. *Resubmitted to Biostatistics*.
DOI: https://doi.org/10.1101/2023.02.06.527391.
Code: https://CRAN.R-project.org/package=RsqMed.

[3] Zilinskas, R., **Li, C.**, Shen, X., Pan, W.**, and Yang, T.** Inferring a directed acyclic graph of phenotypes from GWAS summary statistics. *Revision submitted to Biometrics*.
DOI: https://doi.org/10.1101/2023.02.10.528092.
Code: https://github.com/chunlinli/sumdag.

[2] Chen, L.*, **Li, C.***,**, Shen, X., and Pan, W. Discovery and inference of a causal network with hidden confounding. *Revision submitted to Journal of the American Statistical Association*.
DOI: forthcoming.
Code: https://github.com/chunlinli/grivet.

[1] Dai, B.*,**, **Li, C.***, Xue, H., Pan, W., and Shen, X. Inference of nonlinear causal effects with GWAS summary data. *Submitted to Electronic Journal of Statistics*.
DOI: https://doi.org/10.48550/arXiv.2209.08889.
Code: https://github.com/nl-causal/nonlinear-causal.

Publications

[5] **Li, C.****, Shen, X., and Pan, W. (2023). Nonlinear causal discovery with confounders. *Journal of the American Statistical Association*.
DOI: https://doi.org/10.1080/01621459.2023.2179490.
Code: https://github.com/chunlinli/defuse.

[4] Dai, B.** and **Li, C.** (2023). RankSEG: A consistent ranking-based framework for segmentation. *Journal of Machine Learning Research*.
DOI: https://doi.org/10.48550/arXiv.2206.13086.
Code: https://github.com/statmlben/rankseg.

[3] **Li, C.****, Shen, X., and Pan, W. (2023). Inference for a large directed acyclic graph with unspecified interventions. *Journal of Machine Learning Research*.
DOI: https://doi.org/10.48550/arXiv.2110.03805.
Code: https://github.com/chunlinli/intdag.
Student Paper Award, Conference on Statistical Learning and Data Science, ASA, 2020.

[2] Dai, B.**, Shen, X., Chen, L. Y., **Li, C.**, and Pan, W. (2022). Data-adaptive discriminative feature detection with statistically guaranteed interpretation. *The Annals of Applied Statistics*.
DOI: https://doi.org/10.1214/22-AOAS1705.
Code: https://github.com/statmlben/dnn-locate.

[1] **Li, C.**, Shen, X.**, and Pan, W. (2019). Likelihood ratio tests of a large directed acyclic graph. *Journal of the American Statistical Association*.
DOI: https://doi.org/10.1080/01621459.2019.1623042.
Code: https://github.com/chunlinli/clrdag.

TALKS

Unconditional Treatment Effect with Unmeasured Confounding
Invited talk, CMStatistics 2023 — Dec 2023 (forthcoming)

Inferring a Directed Acyclic Graph using GWAS Summary Statistics
Invited talk, ICSA 2023 China Conference — Jul 2023 (forthcoming)

Causal Discovery and Inference with Instrumental Variables
Seminar, Department of Statistics, Iowa State University — May 2023

Inference of Effects in an Interventional Gaussian Directed Acyclic Graph
Invited talk, Conference on SLDS 2020 (canceled due to COVID-19) — May 2020

TEACHING

Instructor, University of Minnesota
STAT 3021 Introduction to Probability and Statistics — Fall 2021

SERVICES

Invited Reviewer

ASA Mental Health Statistics Section Student Paper Award Competition, JSM 2023	×4
IEEE Transactions on Neural Networks and Learning Systems	×1
International Conference on Artificial Intelligence and Statistics 2022, 2023	×7
Journal of Computational and Graphical Statistics	×1
Journal of Machine Learning Research	×1
Journal of the American Statistical Association	×1
Journal of the Royal Statistical Society, Series B (Statistical Methodology)	×3

Last updated: June 30, 2023