KENDRICK (QIJUN) LI

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CURRENT POSITION

Department of Biostatistics, University of Michigan, Ann Arbor, MI 6/2021 - present

Postdoctoral fellow

Advisors: Dr. Xu Shi, Dr. Eric J. Tchetgen Tchetgen

EDUCATION

University of Washington, Seattle, WA 9/2016 - 6/2021

Ph.D. in Biostatistics

Dissertation: Methods for Agnostic Statistical Inference

Committee: Kenneth Rice (chair), Lurdes Inoue, Noah Simon

Award: SPH Outstanding PhD Student in Biostatistics Award, 2021

Peking University, Beijing, China 9/2012 - 6/2016

B.S., Biological Sciences; B.A., Applied Mathematics

Award: National Outstanding Student Award, 2016

RESEARCH INTERESTS

Causal inference; semiparametric efficiency theory; meta-analysis; missing data; decision theory; pharmacokinetics modeling; clinical trial; infectious disease

SUBMITTED/UNDER REVISION/PREPRINTS

1. **Li K**, Shi X, Miao W, Tchetgen ET. Doubly Robust Proximal Causal Inference under Confounded Outcome-Dependent Sampling. *ArXiv.* 2022 Aug 2. *(under revision in Biometrika; preprint available on ArXiv)*
2. Shi X, **Li K**, Mukherjee B. Current Challenges with the Use of Test-Negative Designs for Modeling COVID-19 Vaccination and Outcomes. *(under revision in AJE)*
3. **Li K**, Shi X, Miao W, Tchetgen ET. Double Negative Control Inference in Test-Negative Design Studies of Vaccine Effectiveness. *ArXiv.* 2022 Mar 23. *(under revision in JASA; preprint available on Arxiv)*
4. **Li KQ**, Rice KM. A Bayesian'sandwich'for variance estimation and hypothesis testing. *(available on Arxiv)*

PUBLICATIONS

1. Eiger DS, Inoue LY, **Li Q**, Bardy G, Lee K, Poole J, Mark D, Samad Z, Friedman D, Fishbein D, Sanders G. Factors and outcomes associated with improved left ventricular systolic function in patients with cardiomyopathy. *Cardiology Journal.* 2020 Dec 31.
2. **Li, K.**, Rice, K. Improve Inference for Meta-Analysis of Several Two-By-Two Contingency Tables. *Research Synthesis Methods*, 11.3(2020): 387-396.
3. Liu, Y., Luo, M., **Li, Q.**, Lu, J., Zhao, M. & Qu, H. CIGene: A literature-based online resource for cancer initiation genes. *BMC genomics*, 19.1(2018), 552.

IN PREPARATION

1. **Li K**, Li X, Shi X, Miao W. A novel continuum of resistance model for estimation under missing not at random with callback data.
2. **Li K**, Shi X, Miao W. Using negative control genes to remove unwanted variation in predictive disease modeling with microarray data.
3. Emerman I, **Li K**, Shi X, Nelson J. Using Double Negative Controls to Adjust for Healthy User Bias in a Recombinant Zoster Vaccine Safety Study.
4. **Li K**, Shi X, Miao W, Tchetgen Tchtgen E. Double negative control for confounding adjustment with Cox proportional hazards regression model.

STATISTICAL ANALYSIS PLAN

1. Gilbert PB, Fong Y, Benkeser D, Andriesen J, Borate B, Carone M, Carpp LN, Diaz I, Fay MP, Fiore-Gartland A, Hejazi NS, Huang Y, Huang Y, Hyrien O, Janes HE, Juraska M,**Li K**, Luedtke A, Nason M, Randhawa AK, van der Laan L, Williamson B, Zhang W, Follmann D. USG COVID-19 Response Team / CoVPN Vaccine Efficacy Trial Immune Correlates Statistical Analysis Plan. figshare. `https://doi.org/10.6084/m9.figshare.13198595.v13`

INVITED TALKS

1. Addressing Selection and Confounding Bias in Test-Negative Study Designs for Flu and COVID-19 Monitoring.
   - Western North American Region (WNAR) of the International Biometric Society Conference, Portland, OR. June 2022.
   - The 5th International Conference on Econometrics and Statistics, Kyoto, Japan. June 2022.

CONTRIBUTED PRESENTATIONS

1. Double Negative Control Inference in Test-Negative Design Studies of Vaccine Effectiveness.
   - American Causal Inference Conference, Berkeley, CA. May 2022.
2. A Decision-Theoretic Approach of Robust Variance Estimation.
   - Joint Statistical Meetings, August 2021.
3. Statistical Issues in Meta-Analysis of Adverse Event Data.
   - Western North American Region (WNAR) of the International Biometric Society Conference, Portland, OR. June 2019.

TEACHING EXPERIENCE

Graduate Teaching Assistant Department of Biostatistics, University of Washington, WA

- BIOST 523: Statistical Inference for Biometry II, Spring 2021
- BIOST 522: Statistical Inference for Biometry, Fall 2020
- BIOST 522: Statistical Inference for Biometry, Fall 2019
- BIOST 600C: Study Session (review of theoretical statistical inference), Fall 2018

Co-Instructor - Review Sessions for MS Theory Exam 3/2018 - 6/2018
Graduate Tutor - Center of Statistics Tutoring 10/2017 - 6/2018

RESEARCH EXPERIENCE

Fred Hutchinson Cancer Research Center, Seattle, WA 9/2019 - present
Research Assistant Supervisor: Peter Gilbert, Ph.D.

Department of Biostatistics, University of Washington, Seattle, WA 9/2017 - 12/2019
Research Assistant
Supervisor: Lurdes Inoue, Ph.D.

Boehringer Ingelheim China, Shanghai, China 7/2016 - 8/2016
Biostatistician Intern

OTHER ACTIVITIES

Referee service for:

- Epidemiology;
- American Journal of Epidemiology;

Invited session organizer for:

The 5th International Conference on Econometrics and Statistics (EcoSta 2022)

Memberships:

- American Statistical Association;
- Western North
- American Region (WNAR); International Chinese Statistical Association (ICSA)

Departmental committee member of:

- Admission Committee, Department of Biostatistics, University of Washington (9/2020 - 2/2021)
- Equity, Diversity and Inclusion Committee, Department of Biostatistics, University of Washington (9/2018 - 6/2020)
- Biostatistics Peer Mentoring Program; Workshop Leader, Peer Mentor (9/2017 - 6/2021)

REFERENCES

Xu Shi, Ph.D. (shixu@umich.edu)

Assistant Professor of Biostatistics

Department of Biostatistics, University of Michigan

Eric J. Tchetgen Tchetgen, Ph.D. (ett@wharton.upenn.edu)

Luddy Family President's Distinguished Professor, Professor of Statistics and Data Science

Department of Statistics and Data Science, the Wharton School of the University of Pennsylvania

Kenneth Rice, Ph.D. (kenrice@uw.edu)

Professor of Biostatistics

Department of Biostatistics, University of Washington