

Youjin Lee

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EDUCATION

Johns Hopkins School of Public Health Ph.D. in Biostatistics Dissertation title: <i>Statistical Reasoning in Network Data</i> Primary Advisor : Elizabeth L. Ogburn	09/2014 - 01/2019
Seoul National University , South Korea B.S. with honors in Statistics (Graduated summa cum laude)	03/2010 - 08/2014

PROFESSIONAL EXPERIENCE

Manning Assistant Professor Department of Biostatistics, Brown University	07/2021 -
Postdoctoral Fellow Center for Causal Inference (CCI), University of Pennsylvania	08/2019 - 06/2021
Postdoctoral Fellow Johns Hopkins School of Public Health	02/2019 - 07/2019

PUBLICATIONS

Articles in peer-reviewed journals:

1. Lee, Y., Nguyen, T.Q., & Stuart, E.A. (2021). Partially Pooled Propensity Score Models for Average Treatment Effect Estimation with Multilevel Data. arXiv preprint arXiv:1910.05600. *Accepted for publication at Journal of the Royal Statistical Society: Series A (Statistics in Society)*.
2. Kang, H*, Lee, Y*, Cai, T.T., & Small, D.S. (2021). Two Robust Tools for Inference about Causal Effects with Invalid Instruments. *Accepted for publication at Biometrics*. (*equal contribution)
3. Ogburn, E.L., Shpitser, I. & Lee, Y. (2020). Causal inference, social networks and chain graphs. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*.
4. Lee, Y. & Ogburn, E.L. (2020). Network Dependence Can Lead to Spurious Associations and Invalid Inference. *Journal of the American Statistical Association*.
5. Lee, Y. & Ogburn, E.L. (2020). Testing for Network and Spatial Autocorrelation. In *International Conference on Network Science* (pp. 91-104). Springer, Cham.
6. Lee, Y., Shen, C., Priebe, C.E., & Vogelstein, J.T. (2019). Network Dependence Testing via Diffusion Maps and Distance-Based Correlations. *Biometrika*.

7. Lee, Y., Wang, M.C., Grantz, K.L., & Sundaram, R. (2019). Joint modelling of competing risks and current status data: an application to a spontaneous labour study. *Journal of the Royal Statistical Society: Series C (Applied Statistics)*.

Non peer-reviewed publications:

Submitted Papers:

1. Chang, T.H., Nguyen, T.Q., Lee, Y., Jackson, J.W., & Stuart, E.A. (2021). Flexible propensity score estimation strategies for clustered data in observational studies.
2. Zhao, A.*, Lee, Y.*, Small, D.S., & Karmakar, B. (2021). Evidence factors from multiple, possibly invalid, instrumental variables. (*equal contribution) (*Revision invited*)
3. Lee, Y. & Schaubel, D.E. (2021). Facility profiling under competing risks using multivariate prognostic scores: Application to kidney transplant centers. (*Revision invited*)
4. Lee, Y., Kennedy, E.H., & Mitra, N. (2020). Doubly Robust Nonparametric Instrumental Variable Estimators for Survival Outcomes. arXiv preprint arXiv:2007.12973. (*Revision invited*)

Manuscript in Preparation:

1. Lee, Y., Shpitser, I., & Ogburn, E.L. Identifying causally influential subjects on a social network.
2. Lee, Y., Reese, P., & Schaubel, D.E. Prognostic score-based methods for estimating center effects based on survival probability.

SOFTWARE

R package

- `logisticRR` (author, maintainer) : An R package for deriving adjusted relative risks from a logistic regression. [CRAN]
- `netdep` (author, maintainer): An R package for testing network dependence and generating network-dependent observations. [CRAN]
- `netchain` (author, maintainer) : An R package for estimating probabilities associated with collective counterfactual outcomes under interference. [CRAN]

PRESENTATIONS

Invited seminars/workshops

- | | *upcoming |
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| · *Statistics and Data Science Seminar, University of Illinois, Chicago. | 10/2021 |
| · *Online Causal Inference Seminar. | 09/2021 |
| · *Causal Inference using R, R-Ladies Philly. | 09/2021 |
| · Department of Biostatistics, University of Washington. | 02/2021 |
| · Department of Data Sciences and Operations, USC Marshall School of Business. | 01/2021 |
| · Department of Biostatistics, Brown University. | 01/2021 |
| · Department of Statistics, University of California, Irvine. | 01/2021 |
| · Department of Biostatistics and Bioinformatics, Emory University. | 01/2021 |
| · Department of Statistics, Seoul National University, South Korea. | 11/2020 |
| · Department of Politics, Princeton University. | 11/2020 |
| · Johns Hopkins causal inference statistical genetics group. | 03/2020 |

- Joint Program in Survey Methodology, University of Maryland. 10/2019
- RAND Corporation, Statistics Group. 02/2019

Invited scientific meetings

- CMStatistics. King's College London, UK*. 12/2021
- ENAR. Baltimore, MD. (*online*) 03/2021
- CMStatistics. King's College London, UK. (*online*) 12/2020
- UPenn DBEI & CCEB Covid-19 Population Journal Club. 07/2020

Contributed oral and poster presentations

- Joint Statistical Meetings. Philadelphia, PA (*online*). †Poster 08/2020
- ENAR. Nashville, TN (*online*). 03/2020
- Joint Statistical Meetings. Vancouver, Canada. 08/2018
- †Atlantic Causal Inference Conference. Carnegie Mellon University. 05/2018
- ENAR. Atlanta, GA. 03/2018
- Joint Statistical Meetings. Baltimore, MD. 08/2017
- †Conference on Lifetime Data Science. University of Connecticut. 05/2017
- †ENAR. Washington, DC. 03/2017

PROFESSIONAL ACTIVITIES

Reviewer : *Journal of the American Statistical Association, Journal of Causal Inference, Statistics in Medicine, Pharmaceutical Statistics, Biometrical Journal, Epidemiology, BJPsychOpen, Biometrics, American Journal of Epidemiology, Biometrika, Journal of Computational and Graphical Statistics.*

Session/workshop organizer

- Causal Inference Methods for Survival and Longitudinal Data, ENAR 03/2021

Volunteer : *19th New Researchers Conference (NRC).*

AWARDS

ASA 2020 Outstanding Statistical Application Award 2020

The Jane and Steve Dykacz Award 2018
For outstanding paper by a Biostatistics student in the area of medical statistics, Department of Biostatistics, Johns Hopkins School of Public Health

The Margaret Merrell Award 2018
For outstanding research by a Biostatistics doctoral student, Department of Biostatistics, Johns Hopkins School of Public Health

Student Paper Awards Joint Statistical Meetings (JSM) 2017
ASA Nonparametric Statistics Section

Student Poster Award Conference on Lifetime Data Science 2017

Louis I. and Thomas D. Dublin Award 2016
For the advancement of Epidemiology and Biostatistics supports for students, Department of Biostatistics, Johns Hopkins School of Public Health

SCHOLARSHIP

Overseas scholarship, Kwanjeong Educational Foundation	2014-2018
National Science and Engineering Scholarship, Korea Student Aid Foundation (Full Tuition Scholarship)	2010-2013

TEACHING EXPERIENCE

Teaching Assistant

· Public Health Biostatistics (Undergraduate Course)	Fall 2018
· Causal Inference in Medicine and Public Health I	2017-2018 3rd and 4th terms
· Survival Analysis I-II	2017-2018 1st and 2nd terms
· Survival Analysis	Summer 2017
· Causal Inference in Medicine and Public Health I	2016-2017 3rd and 4th terms
· Statistical Reasoning in Public Health II	2016-2017 2nd term
· Survival Analysis I	2016-2017 1st term
· Statistical Reasoning in Public Health IV	2015-2016 4th term
· Statistical Reasoning in Public Health III	2015-2016 3rd term
· Statistical Reasoning in Public Health I - II	2015-2016 1st and 2nd terms

Guest Lecture

· <i>Causal interference</i>	10/2020
Class: Causal Inference in Biomedical Research (Instructor: Nandita Mitra and Peter Yang)	
· <i>Causal inference under interference</i>	03/2018
Class: Causal Inference in Medicine and Public Health I (Instructor : Elizabeth Stuart)	
· <i>Introduction to principal stratification and truncation due to death</i>	03/2017
Class: Causal Inference in Medicine and Public Health I (Instructor : Elizabeth Stuart)	

ADVISING

· Esteban Fernandez , Current Ph.D. student in Biostatistics	09/2021 -
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