

Email: junulee@wharton.upenn.edu **Website:** leejunu.github.io

Education

The Wharton School, University of Pennsylvania Philadelphia, PA
 Ph.D., Statistics 08/2022 – *Present*
Advisor: TBD

Harvard University Cambridge, MA
 A.B. in Mathematics and Statistics 08/2018 – 05/2022
 S.M. in Computer Science (concurrent AB/SM program)
Advisor: Lucas Janson

Research interests

Selective inference; Multiple hypothesis testing; Variable selection; e-values and e-processes; Sequential testing; Distribution-free inference;

Publications

** denotes alphabetical order or equal contribution*

- [1] **Junu Lee** and Zhimei Ren. *Boosting e-BH via conditional calibration*. 2024. arXiv: [2404.17562](https://arxiv.org/abs/2404.17562) [[stat.ME](#)].
- [2] Taehyeon Kim, Eric Lin, **Junu Lee**, Christian Lau, and Vaikkunth Mungunthan. “Navigating Data Heterogeneity in Federated Learning: A Semi-Supervised Approach for Object Detection”. In: *Thirty-seventh Conference on Neural Information Processing Systems*. 2023.

Awards and honors

NSF Graduate Research Fellowship '22
 Harvard College Research Program '20
 Herchel Smith Harvard Undergraduate Research Fellowship '20
 Derek Bok Certificate of Distinction in Teaching '19, '20

Teaching

Teaching Assistant, The Wharton School
 STAT 9270^{*‡}: Bayesian Statistical Theory and Methods Spring '24
 STAT 4050[‡]/7050^{†‡}: Statistical Computing with R Fall '23 (Q2)
 STAT 1110: Introductory Statistics Fall '23
 STAT 1020: Introductory Business Statistics Fall '23

Teaching Assistant, Harvard University
 STAT 149: Introduction to Generalized Linear Models Spring '22
 STAT 210^{*}: Probability I Fall '21
 STAT 111: Introduction to Statistical Inference Spring '20, '21
 STAT 110: Introduction to Probability Fall '19, '20, '21

**: graduate-level courses; †: MBA courses; ‡: guest lectures given*

Industry experience

Dynamo AI

Various

Founding member, advisor

05/2022 – 12/2023

- Developed a multitude of federated learning algorithms and adapted them to various problem domains, e.g., finance, automated driving.
- Met with industry partners to collaborate on algorithms and present finished products.

Hudson River Trading

New York, NY

Algorithm developer intern

06/2021 – 08/2021

- Completed multiple quantitative projects on financial forecasting.

Proton.ai

Boston, MA

Machine learning intern

05/2019 – 08/2019

- Developed NLP-based recommendation systems for sales teams to efficiently market new products and promotions.
- Contributed to the research and training of customer churn models.