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## Education

### **The Wharton School, University of Pennsylvania**

Philadelphia, PA

Ph.D. in 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

- [3] Jeffrey Zhang and **Junu Lee**. *A general condition for bias attenuation by a nondifferentially mismeasured confounder*. 2024. arXiv: [2409.12928](https://arxiv.org/abs/2409.12928) [[stat.ME](https://stat.me)].
- [2] **Junu Lee** and Zhimei Ren. *Boosting e-BH via conditional calibration*. 2024. arXiv: [2404.17562](https://arxiv.org/abs/2404.17562) [[stat.ME](https://stat.me)]. (Submitted to JRSS-B).
- [1] Taehyeon Kim, Eric Lin, **Junu Lee**, Christian Lau, and Vaikkunth Mugunthan. “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

## Talks

Invited talks:

- **Boosting e-BH via conditional calibration.**  
*International Seminar on Selective Inference*, June 2024.

## Teaching

### **Teaching Assistant, The Wharton School**

STAT 9270 <sup>*‡</sup> : Bayesian Statistical Theory and Methods	Spring ’24
STAT 4050 <sup>‡</sup> /7050 <sup>†‡</sup> : Statistical Computing with R	Fall ’23 (Q2)
STAT 1110: Introductory Statistics	Fall ’23
STAT 1020: Introductory Business Statistics	Fall ’22

## 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

## Professional Service

### Wharton Doctoral Ph.D. Mentor

August 2024 – Present

Provide mentorship to incoming Ph.D. students.

## 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

*ML research 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.