Jinho Bok

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Education

University of Pennsylvania — Philadelphia, PA
Ph.D. Student in Statistics & Data Science — Aug 2022 – May 2027 (expected)
• advised by Prof. Jason M. Altschuler

Seoul National University — Seoul, Republic of Korea
B.S. in Statistics, B.S. in Mathematical Sciences — Mar 2016 – Aug 2022
• ranked 1st in the graduating class of College of Natural Sciences
• leave of absence during Fall 2017 – Spring 2019 due to mandatory military service

Preprints & Publications (alph): alphabetical order

Can Rényi Accountants Beat Lossless Accountants for DP-SGD?
Jinho Bok
Preprint, arXiv:2610.17120

Detection of Local Geometry in Random Graphs: Information-theoretic and Computational Limits
(alph) Jinho Bok, Shuangping Li, Sophie H. Yu
Preprint, arXiv:2603.24545

Learning Acceleration Algorithms for Fast Parametric Convex Optimization with Certified Robustness
Rajiv Sambharya, Jinho Bok, Nikolai Matni, George Pappas
Preprint, arXiv:2507.16264

Optimized Methods for Composite Optimization: A Reduction Perspective
Jinho Bok, Jason M. Altschuler
Mathematical Programming: Series A, 2026.
(Preliminary conference version appeared as:
Accelerating Proximal Gradient Descent via Silver Stepsizes
Jinho Bok, Jason M. Altschuler
Conference on Learning Theory (COLT), 2025.)

Shifted Interpolation for Differential Privacy
Jinho Bok, Weijie Su, Jason M. Altschuler
International Conference on Machine Learning (ICML), 2024.
(non-archival track) Symposium on Foundations of Responsible Computing (FORC), 2024.

On the Privacy of Noisy Stochastic Gradient Descent for Convex Optimization
(alph) Jason M. Altschuler, Jinho Bok, Kunal Talwar
SIAM Journal on Computing, 2024.

Awards & Honors

Wharton Doctoral Travel Award, University of Pennsylvania — 2024, 2025, 2026
Lawrence D. Brown PhD Students' Best Papers Award, University of Pennsylvania — 2025
Graduate Study Fellowship, Korea Foundation for Advanced Studies — 2022–
Presidential Science Scholarship, Korea Student Aid Foundation — 2016–2021
Gold Prize, University Students Contest of Mathematics, Korean Mathematical Society — 2020, 2021

Invited Talks

Lawrence D. Brown Student Workshop, University of Pennsylvania — Nov 2026

INFORMS Annual Meeting — Nov 2026
Modeling and Optimization: Theory and Applications — Aug 2026
CS Theory Seminar, University of Pennsylvania — Apr 2026
INFORMS Optimization Society Conference — Mar 2026

STAT9912 (graduate course) Guest Lecture, University of Pennsylvania — Nov 2025
Lawrence D. Brown Student Workshop, University of Pennsylvania — Oct 2025
International Conference on Continuous Optimization — Jul 2025
Algorithms and Complexity Seminar, Johns Hopkins University — Apr 2025

Service

Journal Reviewer
Annals of Applied Probability, Journal of Machine Learning Research

Conference Reviewer
AISTATS (2027), ITCS (2027), NeurIPS (2026)

Program Committee
ALT (2027)

Teaching

Teaching Assistant, University of Pennsylvania — 2022–
STAT 6130: Regression Analysis for Business (Fall 2026)
STAT 4100/7100: Data Collection and Acquisition: Strategies and Platforms (Spring 2026)
STAT 4220/7220: Predictive Analytics for Business (Spring 2026)
STAT/OIDD 4770/7770: Introduction to Python for Data Science (Fall 2025)
STAT 4700/5030: Data Analytics and Statistical Computing (Spring 2024, Spring 2025)
STAT 4330: Stochastic Processes (Fall 2024)
STAT/OIDD 4810/5810: Convex Optimization for Statistics and Data Science (Fall 2023)
STAT 1010: Introduction to Business Statistics (Spring 2023)

Peer Tutor, Seoul National University — 2020–2022
326.313: Regression Analysis and Labs (Spring 2022)
326.312: Mathematical Statistics 2 (Fall 2020, Fall 2021)
326.311: Mathematical Statistics 1 (Spring 2021)
033.016: Basic Calculus 1 (Spring 2020)

Teaching Assistant, Korean Mathematical Olympiad Summer School — 2017

Skills

Programming
Python, R, MATLAB, Mathematica, SQL

Languages
Korean (native), English (fluent)