

Jinwon Sohn

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EDUCATION

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| • Purdue University
Ph.D. - Statistics / Advisor: Prof. Qifan Song | West Lafayette, USA
Jan 2021 - Aug 2025 |
| • Yonsei University
Master degree - Applied Statistics & Data Science / Advisor: Prof. Taeyoung Park | Seoul, Korea
Mar 2018 - Feb 2020 |
| • Yonsei University
Bachelor degree - Applied Statistics | Seoul, Korea
- Mar 2018 |

PROFESSIONAL CAREER

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| • University of Chicago Booth
Principal Researcher / Advisor: Prof. Veronika Rockova | Chicago, USA
July 2025 - present |
| • Datarize
Data Scientist | Seoul, Korea
2020 |
| ◦ Algorithm Evaluation: Evaluated a recommendation system through causal inference | |
| ◦ Developing Recommenders: Developed a Multi-Objectives Contextual Multi-Armed Bandit | |

RESEARCH INTEREST

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- Fairness-aware Machine Learning, Generative Modeling, Synthetic Data, Bayesian Statistics, Differential Privacy, Principal Curve

PUBLICATION

* : Alphabetical order

- **Sohn, J.**, Song, Q., & Lin, G. (2024). Fair Supervised Learning with A Simple Random Sampler of Sensitive Attributes. In *AISTAT* (pp. 1594-1602). PMLR.
- Kang, T., Kim, S., **Sohn, J.***, & Awan, J. (2024). Differentially Private Topological Data Analysis. *Journal of Machine Learning Research*.
- **Sohn, J.**, Jeong, S., Cho, Y. M., & Park, T. (2023). Functional Clustering Methods for Binary Longitudinal Data with Temporal Heterogeneity. In *Computational Statistics & Data Analysis*, 185, 107766.

PREPRINT

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- **Sohn, J.** & Song, Q. (2024). Parallely Tempered Generative Adversarial Networks. arXiv preprint arXiv:2411.11786. Revision submitted for the special issue (Statistical Science in Artificial Intelligence) in *Journal of American Statistical Association*.
 - Lim, T., Nam, K., & **Sohn, J.*** Monotone curve estimation via convex duality. Under R&R in *Journal of American Statistical Association*.
 - **Sohn, J.**, Song, Q., & Lin, G. Task-tailored Pre-processing: Fair Downstream Supervised Learning. Under revision in *Transactions on Pattern Analysis and Machine Intelligence*

PRESENTATION

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- 2025 Advances in Generative Modeling, the Joint Statistical Meetings, USA
Parallely Tempered Generative Adversarial Networks
 - 2025 Spring Quantitative Methods Seminar, School of Business at Purdue University, USA
- Monotone Curve Estimation via Convex Duality
 - 2024 Fall Graduate Student Workshop in Statistics, Purdue University, USA
- Parallely Tempered Generative Adversarial Networks
 - 2024 Methods for Feature Selection, the Joint Statistical Meetings, USA
- Fair Supervised Learning with A Simple Random Sampler of Sensitive Attributes
 - 2024 Spring Purdue Graduate Student Organization Seminar, Purdue University, USA
- Fair Supervised Learning with A Simple Random Sampler of Sensitive Attributes
 - 2019 Fall Conference of the Korean Statistical Society, University of Seoul, Korea
- Variational Inference on Functional Clustering of Varying Coefficients
 - 2018 Fall Conference of the Korean Statistical Society, Ewha Woman University, Korea
- Functional Clustering Methods for Binary Longitudinal Data with Temporal Heterogeneity

AWARD AND HONOR

- 2024 - 2025 Ross Lynn Research Scholar Grant for Statistics at Purdue University, USA
- College of Science Graduate Student Travel Award for Spring 2024 at Purdue University, USA
- 2024 High Profile Student Award for Research in Statistics at Purdue University, USA
- Third Place Award for Presentation, 2019 Fall Conference of the Korean Statistical Society, Korea
- Best Poster Award, 2018 Fall Conference of the Korean Statistical Society, Korea
- Grand Prize in 2018 Big Contest, National Information Society Agency, Korea
- Third Place Award in 2016&2017 Big Contest, National Information Society Agency, Korea
- High Honors - 2017 Spring & Honors - 2016 Fall

SOFTWARE

- **fvcc**: Functional Clustering Methods for Varying Coefficients, written by R

TEACHING

- **Purdue University** West Lafayette, USA
Teaching Assistant *Spring 2021 - Fall 2022*
 - **STAT 303**: Probability and Statistics for Business
 - **STAT 512**: Applied Regression Analysis
 - **STAT 517**: Statistical Inference
- **Yonsei University** Seoul, Korea
Teaching Assistant *Feb 2018 - Feb 2020*
 - **STA 3124**: Stochastic Processes
 - **STA 3126**: Mathematical Statistics

SKILL

- **Languages:** Python(Adv), R(Adv), SQL

REFERENCE

Dr. Qifan Song
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Dr. Jordan Awan
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