

Dohun Lee

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Profile and Research Interests

Graduate student majoring Causal Discovery through Machine Learning;

- Interested in the [agentic LLM](#) and [algorithmic collusion](#);
- Interested in the [innovation dynamics](#) and [co-inventorship network analysis](#);
- Interested in the [individual-and-firm-level choices](#) and the underlying factors that shape the choices.

Education

Ph.D. in Data Science [Seoul National University](#) **Seoul, South Korea** *Mar 2025 - current*

MA in Economics [Graduate School of Sungkyunkwan University](#) **Seoul, South Korea** *Mar 2023 - Feb 2025*
GPA: 4.13/4.50

BA in Economics [Sungkyunkwan University](#) **Seoul, South Korea** *Mar 2017 - Feb 2023*
GPA: 3.95/4.50

Under Review

- **Faithful yet Collusive: Why Chain-of-Thought Monitoring Cannot Detect Collusion in LLM Pricing Agents under Oligopolistic Competition**
- **R&D Tax Credits and Knowledge Spillovers: Causal Inference Under Network Interference**

Conference Presentations

- **The 86th Annual Meeting of the Academy of Management** (Aug 2026)
 - Organized By : Academy of Management
 - Topic : Spillover-Robust Synthetic Control: Addressing Network Interference in Causal Inference
- **The 86th Annual Meeting of the Academy of Management** (Aug 2026)
 - Organized By : Academy of Management
 - Topic : To Stay or To Leave? Prolonged Pendency and Inventor Enthusiasm
- **DRUID26 Conference** (Jun 2026)
 - Organized By : DRUID
 - Topic : Who Wins from R&D Tax Credits? Treatment Effect Heterogeneity and Optimal Policy Design
- **2025 Korea Data Mining Society Annual Conference** (Aug 2025)
 - Organized By : Korea Data Mining Society
 - Topic : Propensity Thresholding Synthetic Control Robust to Geoeconomic Spillovers
- **The 12th Korea Media Panel Academic Conference** (Sep 2024)
 - Organized By : Korea Information Society Development Institute
 - Topic : Use of On-demand Media and Life Satisfaction among the Elderly in South Korea
- **The 77th WAPOR Annual Conference** (Aug 2024)

- Organized By : World Association for Public Opinion Research
- Topic : Use of On-demand Media Services and Life Satisfaction among the Elderly in South Korea
- **The 11th KIRN Academic Symposium** (Jul 2024)
 - Organized By : Korea Inequality Research Network
 - Topic : New Media Use and Life Satisfaction among the Elderly

Professional Service

- **Session Co-chair**, INFORMS 2026 Annual Meeting, Technology, Innovation, and Entrepreneurship SIG (Session Chair: Prof. Hyunwoo Park)
- **Reviewer**, Academy of Management Annual Meeting, TIM Division (2025, 2026)
- **Reviewer**, Academy of Management Annual Meeting, STR (Strategic Management) Division (2025)

Awards

- **The 12th Korea Media Panel Academic Conference - 1st Prize** (Sep 2024)
- **SKKU TA Award** (Jul 2024)

Research Assistant

- **Patent Twins** (Nov 2024 - *current*)
with Professor Jeongsik "Jay" Lee and Hyunwoo Park
 - Participated as an assistant for collection, refinement, and analysis of USPTO patent datasets.
- **Changes in the Labor Market for Lawyers since the Introduction of Law School** (Oct 2024 - Dec 2024)
with Professor Jaesung Choi
 - Assisted individual-level data collection using Selenium and R, provided simplified code that is able to collect over 20,000 career information.
- **Current Status and Challenges of Data-Based Research in Economics** (Aug 2023 - Dec 2023)
with Professor Jaesung Choi DOI : [10.22841/kjes.2024.72.1.001](https://doi.org/10.22841/kjes.2024.72.1.001)
 - Participated as an assistant for (1) the collection of 3,278 academic papers published in four major Economic journals, and (2) the evaluation of the incorporation of administrative data within the collection.
 - Processed to visualize major JEL topics that exhibited high likelihood of administrative data use.

Teaching Assistant

- **2025 AI Careerpath Program** (*Summer 2025*)
with Professor Hyunwoo Park and Taesup Kim
 - Assisted with students experiencing difficulties with data visualization concepts and web deployment through real-time online courses.
 - Supported participating students with group projects related to artificial intelligence and its applications.
- **Data Science for Industrial Economics** (*Fall 2024*)
with Professor Hyunchul Kim
 - Supported students experiencing difficulties with Python and data processing procedures.
 - Assisted the professor with supervising and grading in-class Python quizzes.
- **2024 University of Sydney & SKKU Research Symposium** (Jun 2024 - Sep 2024)
with Professor Jaesung Choi and Hyunchul Kim

- Provided in-depth feedback for student presentations and posters.
- Arranged regular meetings for progress checkups.
- **Labor Economics and Data Science** (Fall 2023)
with Professor Jaesung Choi
 - Provided individual assistance via e-mails and offline TA office hours.
- **KOSSDA Methods Crash Course** (Jul 2023; Jul 2024)
with Professor Jaesung Choi
 - Carried out daily TA sessions (online), providing how-to guidance on web-based data scraping and processing.
 - Provided individual assistance via video calls and e-mails.
- **Economic Data Analysis** (Spring 2023; Spring 2024)
with Professor Jaesung Choi
 - Carried out multiple TA sessions (on- and offline) dedicated to R practices.
 - Provided individual assistance via video calls, e-mails and offline TA office hours.
- **Global Economics Freshmen Seminar** (Spring 2023; Spring 2024)
with Professor Jaesung Choi
 - Carried out two TA sessions (on- and offline) dedicated to STATA practices.

Scholarships and Grants

- **Graduate Scholarship for Future Academic Generations (Specialized Fields)** Seoul National University (Mar 2026 - Feb 2027)
- **BK21 Scholarship** Sungkyunkwan University (Apr 2023 - Feb 2025)
- **Graduate School Distinguished Scholarship (Type II)** Sungkyunkwan University (Mar 2023 - Feb 2025)

Extracurricular Activities

- **Military Service** : Staff Sergeant Discharge, Republic of Korea Transportation Command (Apr 2019 - Feb 2021)

Skills

- **Statistics** : STATA (Advanced)
- **Programming** : R (Advanced), Python (Advanced)
- **Languages** : Korean (Native), English (Fluent), \LaTeX (Advanced)

Overseas Education

- **International School of Amsterdam, Amsterdam, The Netherlands** (Sep 2011 - Aug 2014)

Volunteering Experiences

- **2018 Pyeongchang Winter Olympics Game - VTO (Technology Translation)** (Jan 2018 - Feb 2018)

References

- **Prof. Jaesung Choi - jaesungc (at) skku.edu**
 - Associate Professor (with Tenure), Department of Global Economics, Sungkyunkwan University

- Assistant Professor, Department of Global Economics, Sungkyunkwan University
- Ph.D. in Economics, University of Pennsylvania