

Jaeseok "Sean" Lee

SeanJSLee@gmail.com

SeanJSLee.github.io

LinkedIn

407-ho, Yeungnam University Library, 280 Daehak-ro, Gyeongsan-si, Gyeongsangbuk-do, South Korea, 38541
(+82) 53-810-4737

Researcher specializing in Climate Economics and Data Engineering. Expert in Python for high-performance computing and large-scale data management. Focused on estimating the economic damages and distributional effects of climate change.

EDUCATION

University of Missouri-Columbia, U.S.

Economics, Ph.D. Coursework & Qualifying Exams Completed

August 2019 - December 2023

Fields: Climate Economics, Applied Microeconomics, Econometrics

University of Missouri-Columbia, U.S.

M.A. in Economics

August 2018 - July 2020

Yeungnam University, South Korea

B.A. in Economics

March 2008 - February 2015

Southern Oregon University, U.S.

Exchange Student

September 2013 - June 2014

SKILLS

Computing:

Python (Expert), STATA (Expert), SAS (Advanced), R (Intermediate)

Methodologies:

Regressions, GIS, Database, GPU computing, Multiprocessing, L^AT_EX

Language:

Korean (Native), English (Fluent), Japanese (Conversational)

WORK IN PROGRESS

Current Research Project

"A Cross-Dose-Response Function: Mortality-Temperature Relationship with Temperature Quantile"

- **Methodological Innovation:** Developed a semi-parametric model to map hourly temperature quantile distributions to monthly mortality.
- **Technical Implementation:** Utilized Temperature Quantiles to normalize heterogeneous climate data across 403 U.S. counties. Implemented custom code using Python & GPU computing to process nearly 40 years of hourly weather data.
- **Key Finding:** Discovered that climate adaptation is constrained by income rather than technological trends, highlighting "Climate Inequality".

POSITION

Institute of Regional Economy, Yeungnam University, South Korea

Researcher

May 2024 - Present

- Assists with institutional projects, including manuscript preparation for proposals and reports, and participates in field activities.

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PUBLICATION

Wes Austin, David Figlio, Dan Goldhaber, Eric A. Hanushek, Tara Kilbride, Cory Koedel, **Jaeseok Sean Lee**, Jin Lou, Umut Özek, Eric Parsons, Steven G. Rivkin, Tim R. Sass, Katharine O. Strunk (2023), *Academic mobility in U.S. public schools: Evidence from nearly 3 million students*, **Journal of Public Economics**, Volume 228, 2023.

RESEARCH EXPERIENCE

University of Missouri-Columbia, US

Research Assistant, Department of Economics, Cory Koedel and Eric Parsons

July 2019 - May 2021

- Large-Scale Data Management: Managed and processed confidential administrative datasets containing over 3 million student records.
- Code Optimization: Engineered reusable SAS/STATA code packages and implemented multiprocessing workflows.

Yeungnam University, South Korea

Research Assistant, School of Economics & Finance, Kichun Kang

March 2012 - June 2018

- Database Construction: Architected a bilateral international trade database (SITC/HS codes), ensuring data integrity for rigorous empirical analysis.
- Advanced Modeling: Developed SAS code for a 3SLS (Three-Stage Least Squares) model to measure intensive/extensive trade margins.

TEACHING EXPERIENCE

University of Missouri-Columbia, US

Head Teaching Assistant, ECON 1014: Principles of Microeconomics, Eric Parsons

August 2021 - May 2023

- Process Automation: Developed a Python-based automation tool for course administration (1,000+ students), reducing TA workload and improving administrative efficiency.
- Team Leadership: Supervised and coordinated a team of 12 Teaching Assistants.

REFERENCES

J. Isaac (Zack) Miller (link)

Department Chair; Professor

Department of Economics

University of Missouri-Columbia, US

(+1) 573-882-7282

millerjisaac@missouri.edu

Cory Koedel (link)

Professor of Economics and Public Policy

Department of Economics

University of Missouri-Columbia, US

(+1) 573-882-3871

koedelc@missouri.edu

Eric Parsons (link)

Director of Undergraduate Studies;

Associate Teaching Professor

Department of Economics

University of Missouri-Columbia, US

(+1) 573-882-8780

parsonses@missouri.edu

Kichun Kang (link)

Dean of the College of Business; Professor

School of Economics & Finance

Yeungnam University, South Korea

(+82) 53-810-2845

kikang@ynu.ac.kr (kichunkang@gmail.com)