

# Jaeseok "Sean" Lee

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LinkedIn

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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

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### 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

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Computing:

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

Methodologies:

*Regressions, GIS, Database, GPU computing, Multiprocessing, L<sup>A</sup>T<sub>E</sub>X*

Language:

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

## WORK IN PROGRESS

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### 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

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### 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

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### 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

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### 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

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### J. Isaac (Zack) Miller (link)

Department Chair; Professor

Department of Economics

University of Missouri-Columbia, US

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### Cory Koedel (link)

Professor of Economics and Public Policy

Department of Economics

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### Eric Parsons (link)

Director of Undergraduate Studies;

Associate Teaching Professor

Department of Economics

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### Kichun Kang (link)

Dean of the College of Business; Professor

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Last updated: December 2025