# Jaeseok "Sean" Lee

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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

**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: | *GIS, Database, GPU computing, Multiprocessing,* LaTeX |
| 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.

## 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

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