

Hee Soo Kim

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## FIELDS OF INTERESTS

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Empirical Macroeconomics, Climate Economics, Applied Time-Series Econometrics

## EDUCATION

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- Ph.D.** Economics, Indiana University, *expected May 2025*  
*Main advisor:* Prof.Christian Matthes  
*References:* Prof.Yoosoon Chang, Prof.Laura Liu (Pitt), Dr.Toan Phan (Richmond Fed)
- M.S.** Statistics, Ewha Womans University, *2018*
- B.A.** Economics (*Summa Cum Laude*), Ewha Womans University, *2015*

## PUBLICATIONS

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- “Severe Weather and the Macroeconomy”, **American Economic Journal: Macroeconomics**, forthcoming  
with Christian Matthes and Toan Phan
- “Forecast of realized covariance matrix based on asymptotic distribution of the LU decomposition with an application for balancing minimum variance portfolio”, **Applied Economics Letters**, 2019  
with Dong Wan Shin

## WORKING PAPERS

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“Heterogeneity in the Economic Impact of Temperature Shocks Across US States” (**Job Market Paper**)

*Abstract:* This paper presents new empirical evidence on short- and medium-term heterogeneous temperature effects on real GDP growth and inflation at the US state level. The results reveal heterogeneity across states, seasons, and time horizons, with the sign of responses becoming synchronized seven quarters after temperature shocks. By examining the joint responses of output and prices, I explore whether state-level temperature shocks resemble demand- or supply-side effects. The type of shock varies by season and time horizon: cold season shocks initially act as positive demand and supply shocks but transition to negative supply (mostly in north-eastern states) and positive demand shocks (mostly in southern states) as the time horizon extends, whereas warm season shocks exhibit predominantly negative supply-side effects after seven quarters (especially in southern states). Variations in state-level responses are explained by geographical factors, sectoral shares of manufacturing and services along with average temperature.

“On the Macro Impact of Extreme Climate Events in Central America: A Higher Frequency Investigation” with Carlos Chaverri, Emilio William Fernandez Corugedo, Pedro Juarros, *IMF Working Paper No. 2022/237* (2022)

“Are the Effects of a US Financial Shock on non-US Countries Asymmetric?”

## PROFESSIONAL EXPERIENCES

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*Referee:* Environmetrics

*Summer Intern* at the International Monetary Fund (Western Hemisphere Department) *Summer 2022*

## CONFERENCES AND SEMINARS

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(\* denotes presentation, otherwise co-author attendee)

*2024 (including scheduled):* Macro Brownbag (Indiana University)\*, Midwest Economics Association Conference\*

*2022:* IMF Departmental Seminar (WHD)\*

*2021:* Richmond Fed Brownbag, CEBRA Annual Meeting, Econometrics Models of Climate Change Conference (EMCC), IWH Environmental Macro Workshop, (EC)<sup>2</sup> Conference, Climate Reading Group\*, Macro Brownbag (Indiana University)\*

*2020:* Hoosier Economics Conference (Indiana University)\*, Macro Brownbag (Indiana University)\*

## TEACHING & RESEARCH EXPERIENCE

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### Indiana University

Sole Instructor (8 semesters)	Econometric Theory & Practice II (Graduate)	SP23
	Statistical Analysis for Business & Economics	FA19 - SP22, SP24
RA	for Prof. Christian Matthes	Summer 2020
GA	Introduction to Microeconomics	FA18

### Ewha Womans University

TA	Statistics for Management and Economy	FA15 - FA16
	Matrix Algebra	
	Statistics II	

## HONORS, AWARDS, SCHOLARSHIPS, AND FELLOWSHIPS

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Alumni Associate Instructor Award for Excellence in Teaching, <i>Indiana University</i>	SP24
H H Crawford Graduate Top-up Fellowship, <i>Indiana University</i>	SP23
Lloyd Orr Dissertation Fellowship (first-time recipient), <i>Indiana University</i>	FA22
Department of Economics Graduate Assistantship, <i>Indiana University</i>	2018-present
Top-up Fellowship, <i>Indiana University</i>	2018-2019
2nd prize Poster Award, Korea Statistical Society Conference	2017
Admissions Scholarship, <i>Ewha Womans University</i>	2015-2017
Brain Korea 21, <i>Ewha Womans University</i>	2015-2017
Honors Scholarship, <i>Ewha Womans University</i>	2011-2015

## SKILLS

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Computations: Matlab, R, Stata, Python

Language: Korean(native), English(fluent)