

Academic Positions:

Assistant Professor, Faculty of Economics, University of Cambridge, 2024 –

Past Academic Positions:

Assistant Professor of Economics, University of Tokyo, 2022 – 2024

Visiting Scholar, University of Cambridge, March 2023

Postdoctoral Research Associate, University of Cambridge, 2021 – 2022

Dissertation Fellow, Federal Reserve Bank of San Francisco, June 2019 – August 2019

Education:

Ph.D., Economics, University of Pennsylvania, 2021

(Advisors: Jesús Fernández-Villaverde and Dirk Krueger,

Committee: Frank Schorfheide and Andrew Abel)

M.A., Economics, University of Pennsylvania, 2021

M.S., Finance, University of Illinois at Urbana-Champaign, 2016

B.B.A., Business Administration, Korea University, 2014

B.S., Mathematics, Korea University, 2014

Research Fields:

Macroeconomics, Finance

Publication:

“The Risk-Premium Channel of Uncertainty: Implications for Unemployment and Inflation”

with Lukas B. Freund and Pontus Rendahl

– *Review of Economic Dynamics*, Volume 51, December 2023, Pages 117-137

Working Papers:

“Striking While the Iron Is Cold: Fragility after a Surge of Lumpy Investments”

- R&R at *Journal of the European Economic Association*

“Dynamically Consistent Global Nonlinear Solutions in the Sequence Space: Theory and Applications”

“Bridging Micro and Macro Production Functions: The Fiscal Multiplier of Infrastructure Investment” with Minsu Chang

- R&R at *Journal of Monetary Economics*

“Top Income Inequality and the Business Cycle”

“Disclosure Regulation, Intangible Capital and the Disappearance of Public Firms”

with Sara Casella and Sergio Villalvazo

Work in Progress:

“Rising Intangibles and Technology-Biased Technical Change” with Jesús Fernández-Villaverde

“An Analytic Theory of Frictional Firm Dynamics” with Vasco M. Carvalho

“Labor Market Impact of M&A and Skill Complementarity” with Minji Bang

“From Spreads to Spirals: How Financial Frictions Drive Lumpy Investments”
with Miguel H. Ferreira and Timo Haber

“State-dependent Nonlinear Search and Matching” with Philip Schnattinger and Francesco Zanetti

“Global Nonlinear Equilibrium Dynamics and the Zero Lower Bound” with Kao Nomura

Presentations (*scheduled):

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| 2025 | Chung-Ang University*, Workshop on AI and New Methods in Macro (University of Zurich)*, Workshop on Macroeconomics and Productivity (University of Alicante)*, Bank of England*, Kyoto University* |
| 2024 | University of Tokyo, KER International Conference, SED Barcelona, Yonsei Macroeconomics Workshop, KDI Summer Workshop in Macroeconomics, Dynare conference (NUS), Korea University, KAEA-ASSA/AEA |
| 2023 | Osaka University, University of Sydney, Monash University, University of Melbourne, Queen Mary University of London, Tinbergen Institute Amsterdam, Singapore Management University, National University of Singapore, University of Cambridge, Canadian Economics Association Conference, HKUST/Jinan Macro Workshop, East Asia Macroeconomics Mini-Conference (The Chinese University of Hong Kong), City University of Hong Kong |
| 2022 | Bank of England, Yonsei University, Canadian Economics Association Conference, KEA International Conference, Society for Computational Economics (CEF), RES Junior Symposium, Econometric Society Australasia Meeting, Asian Meeting of the Econometric Society in East and South-East Asia, EEA-ESEM, Korea Development Institute, Hitotsubashi University, ITAM-PIER Conference on Macro-Finance, The Chinese University of Hong Kong, University of Hong Kong, City University of Hong Kong, Waseda University, Keio University, University of Colorado Boulder, Midwest Macro Conference (Fall), National Graduate Institute for Policy Studies (GRIPS), University of Tokyo |
| 2021 | AEA/ASSA (Virtual), Korea Development Institute, Bilkent University, Federal Reserve Board, Bank of Korea, Federal Reserve Bank of St. Louis, Federal Reserve Bank of Boston, University of Tokyo, University of Florida, Korea University (Business), Korea University (Econ), SED Minneapolis, MMF Annual Conference, University of Cambridge, European Winter Meeting of the Econometric Society |
| 2020 | KEA International Conference, WEAI Annual Meeting, MEA Annual Meeting (cancelled), University of Pennsylvania |

2019 Federal Reserve Bank of San Francisco, University of Pennsylvania

Discussions (*scheduled):

- 2024 “The Macroeconomic Effects of Cash Transfers: Evidence from Brazil” by Arthur Mendes, Wataru Miyamoto, Thuy Lan Nguyen, and Steven Pennings, Workshop Oxford-CEPR-BoJ-Waseda
- 2023 “Evergreening” by Miguel Faria-e-Castro, Pascal Paul, and Juan M. Sánchez, Workshop on Financial Frictions, Zombie Firms and the Macroeconomy at the University of Oxford
- 2022 “Understanding Trend Inflation Through the Lens of the Goods and Services Sectors” by Yunjong Eo, Luis Uzeda, and Benjamin Wong, Japan-Korea Economic Society Academic Exchange Workshop

Professional Activities:

- Conference organizer GRIPS-UT Macroeconomics & Policy Workshop in Tokyo, 2024
- Referee The Review of Economics and Statistics, International Economic Review, Games and Economic Behavior, Macroeconomic Dynamics

Honors, Scholarships, Research Grants, and Fellowships:

- 2023 Grants-in-Aid for Scientific Research, Kakenhi, Japan Society for the Promotion of Science: Early-Career Scientists
- 2022 Best Paper Award for Early Career Academics at Econometric Society Australasia Meeting
- 2020 Hiram C. Haney Fellowship Award in Economics for Best Third Year Research Paper
- 2019 FRB San Francisco Thomas J. Sargent Dissertation Fellowship
- 2018 Princeton Initiative Summer Program
- 2016-2020 University of Pennsylvania Doctoral Fellowship
- 2016-2020 Kwanjeong Educational Foundation Fellowship
- 2015 American Finance Association (AFA) Doctoral Student Travel Grant Award
- 2014 Zwisler Fellowship (merit-based), University of Illinois at Urbana-Champaign
- 2014-2015 University of Illinois at Urbana-Champaign Doctoral Fellowship

Teaching Experience:

- Michaelmas, 2024 University of Cambridge, *Computational Methods for Macroeconomics* (Ph.D.)
- Michaelmas, 2024 University of Cambridge, *Advanced Macroeconomics I – Part I* (MPhil in Research)
- Spring, 2023 University of Tokyo, *Macroeconomics I* (Ph.D., core)
- Spring, 2023, University of Tokyo, *Macroeconomy and Capital Markets* (Ph.D.)
- Fall, 2022
- Lent, 2022 University of Cambridge, *Computational Methods for Macroeconomics* (Ph.D.)
- Summer, 2019, University of Pennsylvania, *Math Camp* (Ph.D.)

Summer, 2020

Spring, 2018 University of Pennsylvania, *Intermediate Macroeconomics*, Teaching Assistant to Professor Dirk Krueger

Fall, 2017 University of Pennsylvania, *Econometrics I: Fundamentals* (Ph.D.), Teaching Assistant to Professor Xu Cheng

Spring, 2013 Korea University, *Investments*, Teaching Assistant to Professor Baeho Kim

Languages: English (fluent), Korean (native)

Computational Skills: MATLAB, Julia, R, Stata, SAS