

**Academic Positions:**

Assistant Professor, Faculty of Economics, University of Cambridge, Fall 2024 –  
Assistant Professor of Economics, University of Tokyo, Fall 2022 – Spring 2024

**Past Academic Positions:**

Visiting Scholar, University of Cambridge, March 2023  
Postdoctoral Research Associate, University of Cambridge, August 2021 – August 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”*  
  
*“A Dynamically Consistent Global Nonlinear Solution Method in the Sequence Space and Applications”*  
  
*“Top Income Inequality and the Business Cycle”*  
  
*“Disclosure Regulation, Intangible Capital and the Disappearance of Public Firms”*  
with Sara Casella and Sergio Villalvazo  
  
*“Bridging Micro and Macro Production Functions: The Fiscal Multiplier of Infrastructure Investment”* with Minsu Chang

**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

*“Nonlinear Inflation Dynamics in the Canonical Calvo Pricing Model”* with Kao Nomura

**Presentations (\*scheduled):**

2024	University of Tokyo, Yonsei University*
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 Annual Meeting, 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*
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| 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:**

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| Conference organizer | GRIPS-UT Macroeconomics & Policy Workshop in Tokyo, 2024                               |
| Referee              | International Economic Review (4), Games and Economic Behavior, Macroeconomic Dynamics |

**Honors, Scholarships, Research Grants, and Fellowships:**

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| 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:**

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| Spring, 2023               | University of Tokyo, <i>Macroeconomics I</i> (Ph.D., core)  |
| Spring, 2023, Fall, 2022   | University of Tokyo, <i>Macroeconomy and Capital Markets</i> (Ph.D.)  |
| Spring, 2022               | University of Cambridge, <i>Computational Methods for Macroeconomics</i> (Ph.D.)                                  |
| Summer, 2019, Summer, 2020 | University of Pennsylvania, <i>Math Camp</i> (Ph.D.)  |
| Spring, 2018               | University of Pennsylvania, <i>Intermediate Macroeconomics</i> , Teaching Assistant to Professor Dirk Krueger     |
| Fall, 2017                 | University of Pennsylvania, <i>Econometrics I: Fundamentals</i> (Ph.D.), Teaching Assistant to Professor Xu Cheng |
| Spring, 2013               | Korea University, <i>Investments</i> , Teaching Assistant to Professor Baeho Kim                                  |

**Languages:** English (fluent), Korean (native)

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