

Young Joon Oh

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Research and Teaching Interests

Political Economy; Policy; Computational Social Science (Networks & Simulation Modeling); Quantitative Methods (Statistics, Bayesian statistics, R, Python); Complex Adaptive Systems; Crisis, Risk and Infrastructure (Governance and Access)

Education

- Aug. 2015 **Ph.D. in Public Policy and Political Economy**, University of Texas at Dallas
Dissertation: *Agent-Based Network Modeling for the 2008 Financial Crisis and the Sluggish Recovery*. Advisor: Dr. Euel Elliott.
- Feb. 2001 **M.A. in Political Science**, Seoul National University, Seoul, Korea
Thesis: *Spatial Voting Models and their Applicability to Korean Election*. Advisor: Dr. Suik Hwang.
- Feb. 1998 **B.A. in Political Science and Diplomacy (Minor: Economics)**, Chung-Ang University, Seoul, Korea

Academic Positions

- 2015–2016 **Postdoctoral Research Associate**, Julie Ann Wrigley Global Institute of Sustainability, Arizona State University, RIPS Project (Resilient Interdependent Infrastructure Processes and Systems)
- 2015 **Instructor**, University of Texas at Dallas, *EPPS 2302: Methods of Quantitative Analysis in the Social and Policy Sciences*
- 2010–2015 **Teaching Assistant**, University of Texas at Dallas
- 2000 **Teaching Assistant**, Seoul National University, *Game Theory*

Policy & Government Experience

- 2008–2009 **Legislative Aide**, National Assembly of Korea, Seoul, Office of Assemblyman Park, Jong Hee Committee on National Policy
- 2002–2008 **Legislative Aide**, National Assembly of Korea, Seoul, Office of Assemblyman Maeng, Hyung-Kyu (Chairman, Commerce, Industry & Energy Committee)
Committees: National Defence; Environment & Labor; Commerce, Industry & Energy; Foreign Affairs, Trade & Unification
- 2007 **Planning & Strategy**, Presidential Campaign, Candidate Lee, Myung-Bak
- 2006 **Message Team**, Seoul Mayoral Campaign, Candidate Oh, Se-Hoon
- 2004 **Legislative Aide**, General Election Campaign, Candidate Maeng, Hyung-Kyu

Teaching Experience

- 2016 **Project Manager**, CEE 598: *Resilient Infrastructure*, Arizona State University
Coordinated project-based learning on interdependent infrastructure resilience (RIPS).
- 2015 **Instructor**, EPPS 2302: *Methods of Quantitative Analysis*, UT Dallas
Topics: statistical reasoning for public policy; data analysis in R/STATA; reproducible research.

Publications & Public Engagement

- Working Papers — Stochastic agent-based network modeling of innovation networks using SIENA.
- Hidden spread of risk in interdependent complex networks (infrastructure and systemic risk).
- Medium:** Published essays on Medium exploring Political economy, Computational social science, and Computational modeling.
- Recent:
- (Feb. 2026) The Two Regimes of Hospital Transmission (Firebreak & Saturation): Network-Based SI Simulations of Hospital Contagious Risk
 - (Oct. 2025) Modeling the Renaissance: A Historical Art Network Using Computational Methods in R and Gephi
 - (Sep. 2025) Donbas, NATO, and the emerging battle against economic decline
 - (Aug. 2025) The Threshold of Decline and Transition: America at the Crossroads
 - (Jul. 2025) Tariffs Don't Tell the Whole Story. Public Debt and Market Interest Rates Do
 - (Mar. 2025) Can Passes Become Clues? : Prediction Models Using EPL Passing Networks
 - (Feb. 2025) Which one is More Intuitive: Bayesian or Frequentist
 - (Jan. 2025) Three Specific Conditions in which Simulation can shine (Computational Social Science 2)

YouTube: Tutorials on Modeling

Awards & Honors

- 2016 International Symposium on Sustainable Systems and Technology Travel Award (\$900).
- 2015 MPSA Annual Conference PPPE Travel Grant (\$400).
- 2014 Winter Simulation Conference (PhD Colloquium) ACM SIGSIM Travel Award (\$1,000).
- 2014 APPAM Fall Research Conference PPPE Travel Grant (\$700).
- 2011 Scholarship Recipient, UTD Korean Student Association.
- 1999 Academic Scholarship Recipient, Seoul National University.

Workshops & Training

- 2014 Goldrain Workshop (Dr. Dirk Helbing): Understanding and mastering complex systems in the digital age.
- 2013 Workshop on Economic Science with Heterogeneous Interacting Agents (PhD School): Agent-based modeling & policy design for financial crises.

Technical Skills

- Advanced R, Python, NetLogo, STATA, L^AT_EX, Gephi
- Intermediate QGIS

Languages

Korean Native

English Fluent

References

Dr. Euel Elliott

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Dr. Clint Peinhardt

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Dr. John McCaskill

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