Young Joon Oh

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youngjoon5@gmail.com | youngjoon5.github.io | Roanoke, VA

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.

— From Interaction to Institution: Modeling Social Norms through Networked Minds

— 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:

— (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

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, LaTeX, Gephi
Intermediate QGIS

Languages

Korean Native
English Fluent

References

Dr. Euel Elliott

University of Texas at Dallas
800 W. Campbell Rd., MS GR31, Richardson, TX 75080
Email: eelliott@utdallas.edu
Phone: (972) 883-2066

Dr. Clint Peinhardt

University of Texas at Dallas
800 W. Campbell Rd., MS GR31, Richardson, TX 75080
Email: clint.peinhardt@utdallas.edu
Phone: (972) 883-4955

Dr. John McCaskill

University of Texas at Dallas
800 W. Campbell Rd., MS GR31, Richardson, TX 75080
Email: john.mccaskill@utdallas.edu
Phone: (972) 883-6274

Dr. Maximilian Schich

Tallinn University, CUDAN ERA Chair
Narva mnt 25, 10120 Tallinn, Estonia
Email: mxs@tlu.ee
Phone: (+372) 521-3852