

# Young Joon Oh

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## Research and Teaching Interests

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

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## 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

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## 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*

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## 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

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## 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.

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## 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

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## 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.

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## 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.

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## Technical Skills

Advanced R, Python, NetLogo, STATA, L<sup>A</sup>T<sub>E</sub>X, Gephi  
Intermediate QGIS

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## Languages

Korean Native  
English Fluent

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## References

### **Dr. Euel Elliott**

University of Texas at Dallas  
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### **Dr. Maximilian Schich**

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