

# YUSHIM KIM

Associate Professor | School of Public Affairs | Arizona State University  
411 N. Central Avenue, Suite 445, Phoenix, AZ 85004  
602.496.1157 | ykim@asu.edu | www.ykim.info

## EDUCATION

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- 2007 Postdoctoral Researcher, John Glenn School of Public Affairs, Ohio State University
- 2006 Ph.D., Public Policy & Management, John Glenn School of Public Affairs, Ohio State University
- 1997 M.P.A., Graduate School of Public Administration, Seoul National University, South Korea
- 1994 B.P.A., Department of Public Administration, Daejon University, South Korea

## ACADEMIC APPOINTMENTS

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### Arizona State University, Phoenix, Arizona

- 2013- Associate Professor, School of Public Affairs
- 2007-2013 Assistant Professor, School of Public Affairs
- 2019- Faculty Honors Advisor, Barrett Honors College
- 2019- Core Faculty, Center on Technology, Data, and Society
- 2018-2020 Director, Undergraduate Programs, School of Public Affairs
- 2017- Core Faculty, Center for Social Dynamics and Complexity
- 2016-2017 Honors Faculty, Barrett Honors College
- 2013- Graduate Faculty, Complex Adaptive Systems Science
- 2012-2013 Director, MPA/MPP Programs, School of Public Affairs
- 2010- Senior Global Futures Scholar, Julie Ann Wrigley Global Futures Laboratory
- 2008-2013 Founding Faculty, Center for Policy Informatics
- 2007-2010 Affiliated Faculty, Decision Theater

### Visiting Positions

- 2015-2016 Visiting Professor, Department of Political Science (Part-time)  
Otto-Friedrich-Universität, Bamberg, Germany
- 2015 Visiting Professor, Graduate School of Public Administration (Fall)  
Seoul National University, Seoul, Korea
- 2014 Visiting Lecturer, Department of Public Administration (Spring)  
Erasmus University-Rotterdam, Rotterdam, Netherlands

### Ohio State University, Columbus, Ohio

- 2006 Graduate Research Associate, John Glenn School of Public Affairs
- 2005 Graduate Research Associate, Department of Computer Science and Engineering

## NON-ACADEMIC APPOINTMENTS

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### Ohio Department of Health, Columbus, Ohio

2003-2005	Researcher, Bureau of Nutrition Services
2000-2002	Researcher, Bureau of Health Service Information and Operation Support
1999-2000	Intern, Bureau of Health Service Information and Operation Support

## EDITOR EXPERIENCE

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2018-	Co-editor (Environmental Policy), <i>Journal of Policy Analysis and Management</i>
2017	Co-guest Editor, <i>Government Information Quarterly</i> , Internet Plus Government (with M. Liu)
2017	Co-guest Editor, <i>Information Polity</i> , Internet, Citizens, and Public Policy (with M. Liu)
2016	Co-guest Editor, <i>Government Information Quarterly</i> , Digital Government and Wicked Problems (with J. Zhang)
2016	Co-guest Editor, <i>Information Polity</i> , Digital Government and Wicked Problems (with J. Zhang)
2015	Co-guest Editor, <i>Journal of Policy Analysis and Management</i> , Policy Informatics (with A. Desai)
2011	Co-guest Editor, <i>The Innovation Journal</i> , Policy Informatics (with E. Johnston)

## PUBLICATIONS\*

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### ||| Books |||

- Kim, Y., Mossberger, K., Oh, S.S., & Cha, J.H. (Ed.). (In preparation). *Data Analytics and Public Policy*. World Scientific Publishing.
- Campbell, H., Eckerd, A., & Kim, Y. (In preparation). *The Intertwined Problem of Environmental Injustice, Neighborhood Cleanup, and Gentrification Displacement*
- Campbell, H., Kim, Y., & Eckerd, A. (2015). *Rethinking Environmental Justice in Sustainable Cities: Insights from Agent-Based Modeling*. New York, NY: Routledge.
- Nominated for the 2017 Best Book in Urban Affairs Book
  - Reviewed by S. Verweij (2016). *Review of Policy Research*, 33(2), 226-228.
  - Reviewed by I. Hwang (2016). *Journal of Artificial Societies and Social Simulation*, 19(2). <http://jasss.soc.surrey.ac.uk/19/2/reviews/3.html>

### ||| Public Health and Welfare Management |||

#### Peer Reviewed Articles

1. Kim, Y., Lee, K.B., Oh, S.S., & Park, H.J. (accept). Effectiveness of emergent ad-hoc coordination groups in public health emergencies. *Risk Analysis*. <https://doi.org/10.1111/risa.13751>

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\* Underlined name indicates student.

2. **Kim, Y.,** Oh, S.S., & **Wang, C.** (2020). From uncoordinated patchworks to a coordinated system: MERS-CoV to COVID-19 in Korea. *American Review of Public Administration*. 50(6-7), 736-742. <https://doi.org/10.1177/0275074020942414>
3. **Kim, Y.,** Oh, S.S., Ku, M., & **Byeon, J.H.**, (2020). Interorganizational coordination and collaboration during the 2015 MERS-CoV response in Korea, *Disaster Medicine and Public Health Preparedness*. <http://dx.doi.org/10.1017/dmp.2020.32>
4. **Kim, Y.,** **Kim, J.H.**, Oh, S.S., Kim, S-W, Ku, M., & Cha, J. (2019). Community analysis of a crisis response network. *Social Science Computer Review*. <https://doi.org/10.1177/0894439319858679>
5. **Kim, Y.,** Ku, M., & Oh, S.S. (2019). Public health emergency response coordination: Putting the plan into practice. *Journal of Risk Research*. <https://doi.org/10.1080/13669877.2019.1628092>
6. **Kim, Y.,** & Maroulis, S. (2018). Rethinking social welfare fraud from a complex adaptive systems perspective. *Administration & Society*, 50(1), 78-100.
7. **Kim, Y.,** Zhong, W., Jehn, M., & Walsh, L. (2015). Public risk perceptions and preventive behaviors during the 2009 H1N1 influenza pandemic. *Disaster Medicine and Public Health Preparedness*, 9(2), 145-154.
8. **Zhong, W.,** **Kim, Y.,** & Jehn, M. (2013). Modeling dynamics of an influenza pandemic with heterogeneous coping behaviors: Case study of a 2009 H1N1 outbreak in Arizona. *Computational and Mathematical Organizational Theory*, 19(4), 622-645.
9. **Kim, Y.,** **Zhong, W.,** & Chun, Y. (2013). Modeling sanction choices on fraudulent benefit exchanges in public service delivery. *Journal of Artificial Societies and Social Simulation*, 16(2)8, <http://jasss.soc.surrey.ac.uk/16/2/8.html>.
10. Peck, L., **Kim, Y.,** & Lucio, J. (2012). An empirical examination of validity in evaluation. *American Journal of Evaluation*, 33(3), 350-365.
11. **Kim, Y.,** Hahn, D., & Coursey, D. (2012). Decisions in research review boards: The roles of individual characteristics and communication media. *Public Integrity*, 14(2), 173-192.
12. **Kim, Y.,** Johnston, E., & Kang, H.S. (2011). A computational approach to managing performance dynamics of networked governance systems. *Public Performance & Management Review*, 34(4), 580-597.
13. Jehn, M., **Kim, Y.,** **Bradley, B.,** & Lant, T. (2011). Community knowledge, risk perception and preparedness for the 2009 influenza A (H1N1) pandemic. *Journal of Public Health Management and Practice*, 17(5), 431-438.
14. **Kim, Y.,** Kim, S., & Kim, H. (2010). Transfer from a home and community-based long-term care program to a nursing home: The Ohio experience. *International Journal of Public Policy*, 5(2/3), 160-174.
15. Desai, A., Greenbaum, R., & **Kim, Y.** (2009). Incorporating policy criteria in spatial analysis. *American Review of Public Administration*, 39(1), 23-42.  
\*Awarded *the Health Policy Researcher of the Year* by the Health Policy Institute of Ohio
16. **Kim, Y.,** & Xiao, N. (2008). FraudSim: Simulating fraud in a public delivery program. In L. Liu & J. Eck (Eds.), *Artificial Crime Analysis Systems: Using Computer Simulations and Geographic Information Systems* (pp. 319-338). Hershey, PA: IGI Global.
17. Johnston, E., **Kim, Y.,** & **Ayyangar, M.** (2007). Intending the unintended: The act of building agent-based models as a regular source of knowledge generation. *Interdisciplinary Description of Complex Systems*, 5(2), 81-91.
18. **Kim, Y.** (2007). Using spatial analysis for monitoring fraud in a public delivery program. *Social Science Computer Review*, 25(3), 287-301.

19. Wang, C., Kim, Y., & Oh, S.S. (2020). Epidemic response coordination networks in “living documents.” *Proceeding of 53th Hawaii International Conference on System Sciences (HICSS)*. (pp. 594-603). <http://hdl.handle.net/10125/63812>
20. Kim, Y., Kim, J.H., Oh, S.S., Kim, S-W, & Ku, M. (2019). Subgroup analysis of an epidemic response network of organizations: 2015 MERS outbreak in Korea. *Proceeding of 20th Annual International Conference on Digital Government Research* (pp. 177-185). New York, NY: ACM. DOI: <https://doi.org/10.1145/3325112.3325260>
21. Kim, Y., & McGraw, C. (2012). Use of agent-based modeling for e-Governance research. *Proceeding of the 6th International Conference on Theory and Practice of Electronic Governance*. DOI: [10.1145/2463728.2463850](https://doi.org/10.1145/2463728.2463850)
22. Zhong, W., & Kim, Y. (2010). Using model replication to improve the reliability of agent-based models. In S.K. Chai, J.J. Salerno, & P.L. Mabry (Eds.), *Advances in Social Computing* (pp. 118-127). New York: Springer.

#### Book Chapters

23. Kim, Y. (2012). Simulating a fraud mechanism in public service delivery. In A. Desai (Ed.), *Simulations for Policy Inquiry* (pp. 121-138). New York: Springer.
24. Zhong, W., Lant, T., Jehn, M., & Kim, Y. (2012). Pandemic influenza simulation with public avoidance behavior. In A. Desai (Ed.), *Simulation for Policy Inquiry* (pp. 181-201). New York: Springer.
25. Catlaw, T., & Kim, Y. (2012). Ontologies of multiplicity and simulation: Possibilities for public affairs inquiry. In L. Gerrits, P. Marks, & F. Boons (Eds.), *COMPACT I: Public Administration in Complexity* (pp. 25-43). Litchfield Park, AZ: Emergent Publications.
26. Johnston, E., Quigley, P., & Kim, Y. (2010). Crossing the border: Exploring the barriers for including complexity methods in evidence-based policy debates. In K. Martinas, D. Matika & A. Srbljinovic (Eds.), *Complex Societal Dynamics: Security Challenges and Opportunities* (pp. 13-22). Amsterdam: IOS Press.

### ||| Environmental Justice and Policy |||

#### Peer Reviewed Articles

1. Stuhlmacher, M., Turner II, B.L., Frazier, A., Kim, Y., & Leffel, J. (2021). Institutional shifts and landscape change: The impact of the Período Especial on Cuba’s land system architecture. *Journal of Land Use Science*, 15(5), 690-706.
2. Campbell, H., Eckerd, A., & Kim, Y. (2021). Administration of community participation in small scale projects: Brownfield remediation in Los Angeles. *Administration & Society*, 53(3), 378-409.
3. Ahn, J.J., Kim, Y., Lucio, J., Corley, E., & Bentley, M. (2020). Green spaces and heterogeneous social groups in the U.S. *Urban Forestry & Urban Greening*. 49, 126637.
4. Kim, Y., & Chun, Y. (2019). Revisiting environmental inequity in Southern California: Does environmental risk increase in ethnically homogeneous or mixed Communities? *Urban Studies*. 56(9), 1748-1767.  
\* Invited as a blog article in the *London School of Economics US Politics and Policy* on May 3, 2019: <http://bit.ly/2VBT8xP>
5. Eckerd, A., Kim, Y., & Campbell, H. (2018). Gentrification and displacement: Modeling a complex urban process. *Housing Policy Debate*, 29(2), 273-295.
6. Corley, E.A., Ahn, J.J., Kim, Y., Lucio, J., Rugland, E., & Molina, A. (2018). Conceptualizing lenses, dimensions, constructs and indicators for urban park quality. *Environmental Justice*, 11(6).

7. Eckerd, A., **Kim, Y.**, & Campbell, H. (2017). Community privilege and environmental justice: An agent-based analysis. *Review of Policy Research*, 34(2), 144-167.
8. **Kim, Y.**, & Verweij, S. (2016). Two effective causal paths that explain the adoption of US state environmental justice policies. *Policy Sciences*, 49(4), 505-523.
9. Campbell, H., **Kim, Y.**, & Eckerd, A. (2014). Local zoning and environmental justice: An agent-based analysis. *Urban Affairs Review*, 50(4), 521-552.
10. **Kim, Y.**, Campbell, H., & Eckerd, A. (2014). Residential choice constraints and environmental justice. *Social Science Quarterly*, 95(1), 40-56.
11. Chun, Y., **Kim, Y.**, & Campbell, H. (2012). Using Bayesian methods to control for spatial autocorrelation in environmental justice research: An illustration using Toxics Release Inventory data for a Sunbelt county. *Journal of Urban Affairs*, 34(4), 419-439.
12. Eckerd, A., Campbell, H., & **Kim, Y.** (2012). Helping those like us or harming those unlike us: Illuminating social processes leading to environmental injustice. *Environment and Planning B*, 39(5), 945-964.

#### *Peer Reviewed Conference Proceedings*

13. Eckerd, A., **Kim, Y.**, & Campbell, H. (2011). Using ABM to illuminate social processes leading to environmental injustice. *Proceeding of Computational Social Science Society of America*. [http://computationsocialscience.org/wp-content/uploads/2011/10/Eckhard\\_EKC-CSSS.pdf](http://computationsocialscience.org/wp-content/uploads/2011/10/Eckhard_EKC-CSSS.pdf)

#### ||| Non-Refereed Papers |||

1. Mossberger, K., McCullough, M., Molina, A., & **Kim, Y.** (2021). *Digital entrepreneurship in communities of color*. Policy brief sponsored by the Ewing Marion Kauffman Foundation: Kansas City.
2. **Kim, Y.** (2021). Computational modeling approach to understanding entrepreneurial ecosystems, in *Big Data Directions in Entrepreneurship Research; Researcher Viewpoints* (pp. 15-19), The Ewing Marion Kauffman Foundation: Kansas City.
3. **Kim, Y.** (December 2020). Book Review, *Digital Minimalism* by Cal Newport. The National Information Society Agency, Korea. IT & Future Strategy Report. No. 8, 88-95 (Korean).
4. Wang, C., Ku, M., & **Kim, Y.** (2019). Civic hackathons for local government: Implementation influences and challenges. City of Las Vegas. (Unpublished manuscript).
5. **Kim, Y.** (2017). Data-driven policy making, The National Information Society Agency, Korea (Korean).
6. Johnston, E., & **Kim, Y.** (2009). Mobilization via frustration: A Minnowbrook (III) tradition? *Administrative Theory & Praxis*, 31(1), 116-118.

#### *Special Issue Editorial*

7. Liu, M., & **Kim, Y.** (2018). Internet plus government: New opportunities to solve public problems? *Government Information Quarterly*, 35(1), 88-97.
8. **Kim, Y.**, & Liu, M. (2017). The internet, citizens, and public policy. *Information Polity*, 22(2-3), 69-72.
9. **Kim, Y.**, & Zhang, J. (2016). Digital government and wicked problems. *Government Information Quarterly*, 33(4), 769-776.
10. Zhang, J., & **Kim, Y.** (2016). Digital government and wicked problems: Solution or problem? *Information Polity*, 21(3), 215-221.

11. Desai, A., & Kim, Y. (2015). Policy Informatics. *Journal of Policy Analysis and Management*, 35(2), 354-357.
12. Johnston, E., & Kim, Y. (2011). Introduction to the special issue on policy informatics. *The Innovation Journal*, 16(1), article 1. <http://www.innovation.cc/volumes-issues/vol16-no1.htm>

## RESEARCH ACTIVITIES<sup>†</sup>

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### *Refereed Conference Presentations*

- 2022 Who benefits from greenspaces? A use-based assessment on access to parks (with Y. Won). APPAM, Austin, TX, March 27 - 29  
New directions for environmental justice research: We know there is environmental injustice, so what next? APPAM (Roundtable), Austin, TX, March 27 - 29
- 2021 Effect of an emergent group on network efficiency in a public health emergency response: Case of 2015 MERS-CoV in Korea (with K.B. Lee, S.S. Oh and H.J. Park). The 29<sup>th</sup> Annual Conference of the Society of Risk Analysis-Europe (virtual), June 13-16  
Political ideology and COVID-19 policy stringency: Exploring causal heterogeneity (with C. Wang). MPSA (virtual), April 14-April 18; APSA (virtual), September 30-October 3
- 2020 From cases, to configurations, to improving environmental justice policies (with H. Campbell and A. Eckerd), APPAM Virtual Conference. November 11  
Planned but not planned effectively: Public health emergency response in Korea (with C. Wang and S.S. Oh), ASPA, Anaheim, CA, April 3-7 (the conference was cancelled due to COVID-19)  
\* *William Petak Award* by the Section on Emergent and Crisis Management  
Epidemic response coordination networks in “living documents” (with C. Wang and S.S. Oh). 53th Hawaii International Conference on System Sciences, Maui, Hawaii, January 7-10
- 2019 The role of nongovernmental organizations in a public health emergency (with J. Byeon and S.S. Oh), The Korean Association for Public Administration conference, Busan, Korea, June 28  
Civic innovation to local government: Implementation drivers and challenges (with C. Wang), Public Administration and Innovation Conference, Shanghai, China, June 22-23  
Subgroup analysis of an epidemic response network of organizations: 2015 MERS outbreak in Korea (with J.H. Kim, S.S. Oh, S-W Kim and M. Ku), dg.o Conference, Dubai, UAE, June 18-20  
Epidemic response network of organizations: Detecting communities in a forest with mushrooms and spider webs (with J.H. Kim, S.S. Oh and S-W Kim), PMRC, Chapel Hill, NC, June 13  
Urban park quality and environmental justice: A literature review (with EJPI research group), UAA Conference, LA, CA, April 24-27  
Suburbanization and perceived environmental quality: A case of Phoenix, Arizona (with EJPI research group), UAA Conference, LA, CA, April 24-27

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<sup>†</sup>AESS: Association for Environmental Studies and Sciences  
APPAM: Association for Public Policy Analysis and Management  
APSA: American Political Science Association  
ASPA: American Society for Public Administration  
dg.o: Digital Government Society  
EJPI: Environmental Justice and Policy Initiative at Arizona State University  
MPSA: Midwest Political Science Association  
NASPAA: National Association of Schools of Public Affairs and Administration  
PMRA: Public Management Research Association  
UAA: Urban Affairs Association

- Cleaning up brownfields, improving environmental justice: Assessing the effects of community involvement (with H. Campbell and A. Eckerd), UAA Conference, LA, CA, April 24-27
- 2018 Emergency response coordination plan enactment: Actors and relations enacted, not enacted, or emergent (with S.S. Oh and M. Ku), APPAM, Washington, D.C., November 8-10
- Conceptualizing dimensions of park quality (with E. Rugland, E. Corley and J. Lucio). UAA, Toronto, Canada, April 7
- Exploring the potential consequences of drone use regulations from a social justice perspective (with J. Nelson), UAA, Toronto, Canada, April 7.
- Using agent-based modeling to explore cognitive processes leading to the political polarization of the public's attitude on climate change (with Y. Won), MPSA, Chicago, IL, April 5-8
- Plan enactment in emergency response operations (with M. Ku and S.S. Oh), ASPA, Denver, CO, March 9-13
- 2017 Economic development and gentrification in communities with high levels of environmental injustice (with H. Campbell and A. Eckerd), APPAM, Chicago, IL, November 2-4
- Cleaning up brownfields, improving environmental justice: Assessing community involvement (with H. Campbell and A. Eckerd), AESS Conference, Tucson, AZ, June 21-24
- Park development and civic engagement: A case study of two urban parks in Arizona (with J. Lucio, E. Corley and E. Rugland), AESS Conference, Tucson, AZ, June 21-24
- New evidence on ethnicity-based environmental inequity in Southern California (with Y. Chun and H. Campbell), UAA Conference, Minneapolis, MN, April 19-22
- Understanding economic development and gentrification in communities with high levels of environmental injustice (with A. Eckerd and H. Campbell), UAA Conference, Minneapolis, MN, April 19-22
- The development and distribution of urban green spaces: A case study of Phoenix, Arizona (with J. Lucio and E. Corley), UAA Conference, Minneapolis, MN, April 19-22
- 2016 Cleaning up brownfields, improving environmental justice: Assessing community involvement (with H. Campbell and A. Eckerd), UAA Conference, San Diego, CA, March 18-20
- 2015 Community potential for collective action and environmental justice: An agent-based analysis (with A. Eckerd and H. Campbell), APSA Annual Meeting, San Francisco, CA, September 3-6
- Causal recipes for states' environmental justice policy (with S. Verweij), International Conference on Public Policy, Milan, Italy, July 1-4
- Trying to solve the environmental justice problem: Insight from agent-based modeling (with H. Campbell and A. Eckerd), AESS Conference, San Diego, CA, June 24-27
- 2014 Residential mobility and environmental justice: Insights from agent-based analysis (with A. Eckerd and H. Campbell), The 36<sup>th</sup> APPAM Annual Research Conference, Albuquerque, NM, November 6-8
- 2013 Social capital and environmental justice: An agent-based model (with A. Eckerd and H. Campbell), The 35<sup>th</sup> APPAM Annual Research Conference, Washington, DC, November 7-9
- \* Featured in the online research collection of the 2013 APPAM Fall research conference
- 2012 Race vs. class in environmental justice: Using agent-based modeling (with H. Campbell and A. Eckerd), The 34<sup>th</sup> APPAM Annual Research Conference, Baltimore, MD, November 8-10
- Detecting fraud: Using modeling and simulation approaches in practice and research (with C. McGraw), The 6<sup>th</sup> International Conference on Theory and Practice of Electronic Governance Conference, Albany, NY, October 22-25
- 2011 Inducing proper public actions through risk communication during an emergency (with W. Zhong), The 33<sup>rd</sup> APPAM Annual Research Conference, Washington, DC, November 3-5

- Zoning systems, externalities, and environmental justice (with H. Campbell and A. Eckerd), The 33<sup>rd</sup> APPAM Annual Research Conference, Washington, DC, November 3-5
- Using ABM to illuminate social processes leading to environmental injustice (with A. Eckerd and H. Campbell), The 2011 Computational Social Science Society of America Annual Conference, Santa Fe, NM, October 9-12
- Philosophies of multiplicity and complexity sciences (with T. Catlaw), Challenges of Making Public Administration and Complexity Theory Work, Rotterdam, The Netherlands, June 23-25
- Searching for sweet spots of communication during an emergency situation: Pandemic influenza outbreaks and public risk communication (with W. Zhong), The 11th Biannual PMRA, Syracuse, NY, June 2-4
- 2010 An examination of validity in evaluation (with L. Peck and J. Lucio), The American Evaluation Association Conference, San Antonio, TX, November 8-10
- Environmental inequities in a Sunbelt city: A Bayesian spatial analysis (with Y. Chun and H. Campbell), The 57<sup>th</sup> North American Meetings of the Regional Science Association International, Denver, CO, November 10-13
- Public perception of risk during the Novel H1N1 pandemic (with W. Zhong, M. Jehn, B. Bradley and T. Lant), The 32<sup>nd</sup> APPAM Annual Research Conference, Boston, MA, November 4-6
- Helping those like us or harming those unlike us: Using agent-based modeling to illuminate social processes leading to environmental injustice (with A. Eckerd and H. Campbell), The 32<sup>nd</sup> APPAM Annual Research Conference, Boston, MA, November 4-6
- Using model replication to improve the reliability of agent-based models (with W. Zhong), International Conference on Social Computing, Behavioral Modeling, and Prediction, Natcher Auditorium, NIH Main Campus, Bethesda, MD, March 29-April 1
- 2009 Dealing with evidence of 'lack of evidence': Fraud control in public service delivery (with W. Zhong), The 31<sup>st</sup> APPAM Annual Research Conference, Washington, DC, November 5-7
- From data to action: Evaluating simulation data in agent-based models (with Y. Chun), North American Association for Computational Social and Organizational Sciences Annual Conference, Tempe, AZ, October 23-24
- Multiple platforms to enhance policy-making using simulation evidence (with W. Zhong), North American Association for Computational Social and Organizational Sciences Annual Conference, Tempe, AZ, October 23-24
- An interpretive-emergent-holistic approach for collaborative governance (with E. Johnston and N. Nan), The 10<sup>th</sup> Biannual PMRA Conference, Columbus, OH, October 1-3
- The interplay of certainty, severity, and celerity in punishment on wrongdoing (II): Fraud control in public service delivery (with W. Zhong), The 10<sup>th</sup> Biannual PMRA Conference, Columbus, OH, October 1-3
- 2008 The interplay of severity and certainty of punishment on wrongdoing (with W. Zhong), The 30<sup>th</sup> APPAM Annual Research Conference in Los Angeles, CA, November 6-8
- Policy informatics v1.0 (with E. Johnston), Minnowbrook III, Syracuse, NY, September 5-7
- The use of policy informatics to understand the METRO transportation megaprojects in Phoenix (with E. Johnston and M. Ayyangar), The 68<sup>th</sup> ASPA Annual Conference, Dallas, TX, March 7-11
- 2007 The dynamics of public performance management, The 9th Biannual PMRA Conference, University of Arizona, Tucson, AZ, October 25-27
- Dynamic spatial models of fraudulent behavior: Combining Geographical Information Systems and Agent-Based Models (with A. Desai), The 9<sup>th</sup> Crime Mapping Research Conference, Pittsburgh, PA, March 28-31



- Disenrollment from a home and community-based long-term care program to a nursing home: Ohio's experience (with S. Kim and H. Kim), The 67<sup>th</sup> ASPA Annual Conference, Washington, DC, March 25-27
- 2005 Detecting fraud in public service delivery programs, The 27<sup>th</sup> APPAM Annual Research Conference in Washington, DC, November 3-5
- Estimating local effects of Medicaid expenditure changes (with A. Desai and R. Greenbaum), The 27<sup>th</sup> APPAM Annual Research Conference in Washington, DC, November 3-5
- Estimating and illustrating the county level effects of reduced Medicaid expenditures (with A. Desai and R. Greenbaum), AcademyHealth's State Health Research and Policy Interest Group Meeting in Boston, MA, June 25

### *Invited, Professional, and Colloquium Presentations*

- 2021 Environmental justice and policy in the U.S.: Systems thinking approach
- Guest Speaker, Brain Korea Seminar, Graduate School of Public Administration, Seoul National University, April 14
  - Guest Speaker, PAF7317 Social Inquiry & Public Policy, School of Public Administration, University of Central Florida, March 18
- 2020 From MERS-CoV to COVID-19 in Korea
- Guest Speaker, "Supporting government decisions in times of crisis," The Visiting International Professional Program at Michigan State University funded by the Korean Ministry of Personnel Management, December 2
  - Guest Lecture, "2015 MERS-CoV response in Korea," TNDY408C: COVID-19 and Health Systems in the USA and Around the World, Claremont Graduate University, Claremont, CA, November 5
  - Panel Speaker, "MERS-COV and COVID-19 in Korea: Planning and organizing for national public health crises," Rethinking Crisis Management and International Cooperation amidst COVID-19, Center for Interdisciplinary Research on China at Kookmin University, Korea, September 10
    - Covered by 15 Chinese and 4 Korean news outlets
  - Panel Speaker, "From uncoordinated patchworks to a coordinated system: MERS-CoV to COVID-19 in Korea," COVID-19 and Public Policy and Management Workshop, ASU Center on Technology, Data, and Society, Phoenix, AZ, May 1
- 2019 Public health emergency management: Insights from a network study, Korea University SSK Colloquium, Seoul, Korea, December 2
- 2018 The emergence of environmental injustice: Economic rationality, political rationality, and racial targeting, Korea University Colloquium, Seoul, Korea, January 31
- 2017 A network analysis of public health emergency response, Korea University, Social Science Korea Colloquium, Seoul, Korea, November 28
- Operation plan enactment in response to public health emergency (with M. Ku and S.S. Oh), Renmin University of China, Beijing, China, November 26
- Data-driven policymaking in U.S., The Korean Association for Public Administration International Conference, Jeonju, Korea, June 22-24
- Interorganizational networks planned vs. implemented for disruptive events (with M. Ku and S.S. Oh)
- Korea University, Social Science Korea Colloquium, Seoul, Korea, June 26
  - Korean Association for Public Administration International Conference, Jeonju, Korea, June 22-24

- 2016 Environmental injustice as environmental disaster, American University, Washington, D.C., December 9  
 Education through simulation: Assessing the NASPAA student simulation competition cases, NASPAA Annual Conference, Columbus, OH, October 20-21  
 It's not just for capstones: Short duration client projects for the MPA classroom, NASPAA Annual Conference, Columbus, OH, October 20-21  
 Two effective causal paths that explain the adoption of U.S. state environmental justice policies, Claremont Graduate University, Claremont, CA, March 29
- 2014 Agent-based modeling for public policy and management research, Public Administration Seminar Series on Research Methodology, Erasmus University-Rotterdam, The Netherlands, May 27  
 Environmental justice using agent-based modeling, Governance of Complex Systems Group, Erasmus University-Rotterdam, Rotterdam, The Netherlands, April 17
- 2013 A conversation about being a scholar in the complexity sciences (with K. Dooley), Consortium for Biosocial Complex Systems Dynamical Discussion, Arizona State University, Tempe, AZ, October 17  
 What to consider in launching and evaluating distance/online learning in your program, NASPAA Annual Conference, Washington, DC, October 10-12  
 Directing programs: The good, the bad and the ugly, NASPAA Annual Conference, Washington, DC, October 10-12  
 Policy Informatics: An application to environmental justice and policy, Graduate School of Public Administration, Seoul National University, Seoul, Korea, June 26
- 2012 Complexity science, agent-based modeling, and policy informatics: What are they doing in the space of policy analysis and management? The Center for Social Dynamics and Complexity, Arizona State University, Tempe, AZ, November 15  
 ICT-enabled governance and policy modeling: Bridging the North-South gap, The 6<sup>th</sup> International Conference on Theory and Practice of Electronic Governance Conference, Albany, NY, October 22-25  
 Building agent-based models with MPA/MPP students in classroom, NASPAA Annual Conference, Austin, TX, October 18-20
- 2011 Using agent-based modeling to disentangle environmental (in)justice (with H. Campbell and A. Eckerd), School of Public Affairs Colloquium, Arizona State University, Phoenix, AZ, February 25
- 2010 Simulations as narratives (with D. Landsbergen and A. Desai), NASPAA Annual Conference, Las Vegas, NV, September 30-October 2
- 2009 Crossing the border: Exploring the barriers for including complexity methods in evidence-based policy debates (with Johnston and Quigley), NATO Advance Research Workshop, Zagreb, Croatia, December 9  
 Public risk communication survey (with M. Jehn and T. Lant), Workshop on improving risk communication during a pandemic: Challenges and opportunities, Phoenix, AZ, November 9
- 2008 Incorporating policy criteria in spatial analysis, School of Public Affairs colloquium, Arizona State University, Phoenix, AZ, April 18
- 2007 Simulating statistical and spatial patterns of fraud using an agent-based model, John Glenn School of Public Affairs, Doctoral Colloquium, Columbus, OH, January 5
- 2006 The role and effect of a value-added measure on the Ohio education accountability system (with Desai), Ohio Department of Education, Columbus, OH, August 28

- Incident and knowledge management at Ohio Health, CETI Industry Day showcase, Ohio State University, Columbus, OH, July 28
- 2005 Complex behavior: Emerging spatial patterns between corrupt agents, Department of Computer Science and Engineering, Ohio State University, Columbus, OH, November 14
- Identifying high-risk vendors in public service delivery programs, Criminal Justice Research Center, Ohio State University, Columbus, OH, October 28
- Estimating local effects of Medicaid expenditure changes (with A. Desai and R. Greenbaum), Statewide Rural Health Conference in Columbus, OH, June 3
- Estimating the results of reduced Medicaid expenditures (with A. Desai and R. Greenbaum), Testimony presented to the House sub-committee on Human Services, Ohio Legislature
- Identifying high-risk vendors, School of Public Policy & Management, Doctoral Colloquium, Ohio State University, Columbus, OH, April 22

### *Research Training and Workshops*

- 2016 The Future of Social Science, Institute for Social Research, University of Michigan, Ann Arbor, MI, October 7-8
- 2013 Agent-Based Modeling in Education, Arizona State University, Tempe, AZ, Feb. 28-Mar. 2
- Modeling Emergence in Sociology, University of Arizona, Tucson, AZ, January 3-5
- Introduction to R, University of Arizona, Tucson, AZ, January 3-5
- 2011 Teaching Individual/Agent-based Modeling, Humboldt State University, Arcata, CA, June 13-17
- 2010 Collaborative and Participatory Research Workshop, University of Texas, Austin, TX, May 10-11
- Policy Informatics Workshop, Arizona State University, Tempe, AZ, February 4-6
- 2009 Second International Workshop on Social Computing, Behavioral Modeling, and Prediction, Phoenix, AZ, March 30 – April 1
- 2008 Spatial Filtering using the Eigenvector Approach, University of Texas, Dallas, June 16-20
- First International Workshop on Social Computing, Behavioral Modeling, and Prediction, Phoenix, AZ, April 1-2
- 2007 GIS and Spatial Modeling for the Social Science Curriculum, Spatial Perspectives on Analysis for Curriculum Enhancement Workshop, Ohio State University, Columbus, OH, June 18-23
- Mapping and Analysis for Public Safety, The 9<sup>th</sup> Crime Mapping Research Conference, Pittsburg, PA, March 28-31
- Crime Hot Spots: Behavioral, Computational and Mathematical Models, The Institute for Pure and Applied Mathematics, University of California, LA, CA, January 29 - February 2
- 2006 Space, Networks and Social Influence, The National Consortium on Violence Research (NCOVR) Sponsored Workshop, University of California, Irvine, CA, February 9-11

## TEACHING

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### *Courses Taught*

#### Arizona State University (2007 – Current)

- PAF340 Contemporary Policy Challenges (Undergraduate, ASU Online)
- PAF505 Public Policy Analysis (Graduate, Face-to-Face & ASU Online)
- PAF509 Public Affairs Capstone (Graduate, Online)

PAF540 Advance Policy Analysis (Graduate, Face-to-Face & Intensive)  
 PAF541 Program Evaluation (Graduate, Intensive)  
 PAF579 Public Policy Capstone (Graduate, Intensive)  
 PAF591 Complexity in Public Policy & Management (Graduate, Face-to-Face & Intensive)  
 SOS/SOLS/SHESC/PAF/SGSUP 494/591 Introduction to Fundamentals of Urban Sustainability Science (Seminar)  
 PAF601 Policy Analysis and Evaluation Seminar (Doctoral)

### Teaching Abroad

#### *Environmental Justice and Agent-Based Modeling*

University of Bamberg, Germany (Undergraduate, Spring 2015)  
 Seoul National University, Korea (Graduate, Fall 2015)  
 Korea University, Korea (Undergraduate, Fall 2015)

### *Doctoral Dissertation Committee*

- 2021 Chan Wang, "Policy Change for Uncertainty: Understanding State Policy Dynamics in the Pandemic," School of Public Affairs, Arizona State University, Chair (In Progress)
- 2020 Michelle Stuhlmacher, "Patch to Landscape and Back Again: Land System Architecture Change and Environmental Consequences from the Local to Global Scale," School of Geographical Sciences and Urban Planning, Arizona State University, Committee  
*Assistant Professor, DePaul University*
- 2019 Jake Nelson, "Policy Innovation for an Uncertain Future: Regulating Drone Use in Southern California Cities," School of Public Affairs, Arizona State University, Committee  
*Post-doc, University of Texas at Austin*
- 2013 Jeffrey Callen, "A Tree with Roots: Public Administration Ethics from Case Studies to Assemblages," School of Public Affairs, Arizona State University, Committee  
*Assistant Professor, Idaho State University*
- 2013 Wooseong Jeong, "The Dynamics on Innovation Adoption in U.S. Municipalities: The Role of Administrative Leadership in Promoting Innovative Practices," School of Public Affairs, Arizona State University, Co-Chair  
*Researcher, The Korea Research Institute for Human Settlements*
- 2012 Wei Zhong, "Communicative Competence: Computational Simulation Approach to Public Emergency Management," School of Public Affairs, Arizona State University, Committee  
*Assistant Professor, Renmin University of China*

### *Master Thesis Committee*

- 2015 Patricia Garland, "Environmental Justice and the Siting of SR-85 and North Gateway Transfer Station," Global Institute of Sustainability, Arizona State University
- 2013 Chien-Fen Chiu, "Customers' Zone of Tolerance toward Hotel Services," School of Community Resources and Development, Arizona State University
- 2009 Zachary Cole, "Quileute Environmental Values: Effect on Attitudes Toward Natural Resource Management," School of Community Resources and Development, Arizona State University

### *Undergraduate Honor's Thesis Committee*

- 2017 Erin Rugland, “Social Exclusion from Public Green Spaces: Dimensions of Sociolegal Barriers to Urban Park Access,” Barrett, The Honors College, Arizona State University

### *Reading & Conference Adviser*

- 2016 David Schlinkert, “Edification of the Previously Displaced: Dropout Rates and Mental Health Access Amongst Bolivar’s Displaced Youths” for the United State Agency of International Development, School of Public Affairs, Arizona State University

### *High School Student Adviser*

- 2018-2019 Vritika Patni, BASIS Peoria High School (Topical Interest: Environmental Justice)

### *International Visiting Fellow Adviser*

- 2018-2019 Inyoung Hwang, Ph.D., Graduate School of Public Administration, Seoul National University (Topical Interest: Agent-Based Modeling)
- 2017-2018 Minsang Yi, ABD, Graduate School of Public Administration, Seoul National University (Topical Interest: Information Technology)
- 2012-2013 Howon Suk, Ph.D., Department of Public Administration, Korea University (Topical Interest: Complexity and Public Policy)

## **SERVICE**

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### *Professional Service*

- 2021 American Association of University Women (AAUW) Fellowship and Grant Review Panel, December 16, 2021-March 12, 2022  
Reviewer  
APPAM Fall Research Conference, Austin, TX. (November 11-13)  
Program Committee (Environmental Policy)  
Digital Entrepreneurship in Communities of Color, Center on Technology, Data and Society Workshop (April 9)  
Panel Moderator  
Arizona State University—Hanyang University Joint Mini-Conference (February 18 & 25)  
Organizer
- 2020 APPAM Fall Research Conference, Washington, DC. (November 12-14)  
Program Committee (Environmental Policy)  
COVID-19 and Public Policy and Management Virtual Workshop, ASU Center on Technology, Data, and Society (May 1)  
Organizer
- 2019 20<sup>th</sup> International Conference on Digital Government Research, Dubai, UAE (June 18-20)  
Track Co-Chair, “Data intelligence to data impacts: Tackling public problems with data”  
Midwest Political Science Association, Chicago, IL (April 6)  
Selection Committee, the Evan Ringquist Award on Political Institutions

- 2018 19<sup>th</sup> International Conference on Digital Government Research, Delft, Netherlands (May 30-June 1)  
Track Co-Chair, “Data sharing and analytics to solve social challenges”  
NASPAA Annual Conference, Atlanta, GA (October 12)  
Panel Organizer, “Education through computer simulation: What and how to teach in the classroom”  
4<sup>th</sup> NASPAA Student Simulation Competition, Arizona State University, Phoenix, AZ (February 24)  
ASU Simulation Leader
- 2017 3<sup>rd</sup> NASPAA Student Simulation Competition, Arizona State University, Phoenix, AZ (February 25)  
Advisory Group & ASU Simulation Leader
- 2016 2M Research Services, Expert panel on WIC fraud control (Dec 2015 – July 2017)  
17<sup>th</sup> International Conference on Digital Government Research, Shanghai, China (June 8-10)  
Program Co-Chair  
2<sup>nd</sup> NASPAA Student Simulation Competition, Arizona State University, Phoenix, AZ (February 27)  
Steering Committee & ASU Simulation Leader
- 2015 16<sup>th</sup> International Conference on Digital Government Research, Phoenix, AZ (May 27-30)  
Program Co-Chair  
1<sup>st</sup> NASPAA Student Simulation Competition, University of Southern California, LA, CA (February 28)  
Judge
- 2014 NASPAA Doctoral Dissertation Award Committee  
Policy Informatics in the PA Curriculum: A workshop to explore integration of data-intensive analytical skills in public affairs education, Center for Technology in Government, Albany, NY (May 9)  
Advisory Group for the NSF/eGovPoliNet-funded workshop  
13<sup>th</sup> IFIP e-Government Conference, Trinity College, Dublin, Ireland (September 1-4)  
Program Committee
- 2013 The 35<sup>th</sup> APPAM Annual Research Conference, Washington, DC (November 7-9)  
Discussant, “Measuring Change in Public Policy and Management Systems”  
Crossover Project for Policy-Making 2.0 Prize, Jury  
12<sup>th</sup> IFIP e-Government Conference, Koblenz, Germany (September 16-19)  
Program Committee  
XVII International Research Society for Public Management Conference, Prague, Czech Republic (April 10-12)  
Co-Chair, Policy Informatics track
- 2012 The 34<sup>th</sup> APPAM Conference, Baltimore, MD (November 8-10)  
Program Committee on Policy Informatics  
Roundtable Organizer, Advancing Policy Informatics within APPAM  
Agent-Based Modeling Workshop (with S. Maroulis), Ohio State University, Columbus, OH (May 2-3)
- 2011 The 33<sup>rd</sup> APPAM Conference, Washington, D.C. (November 3-5)  
Poster Presentation Judge  
Program Committee on 1) Environment and Energy and 2) Ad-hoc Policy Informatics  
Panel Organizer, “Advanced Simulation Approaches for Community Sustainability”

- Workshop Organizer, “Working with Prototype Agent-Based Models for Topics in Public Policy and Management” (with E. Johnston and S. Maroulis)
- 2008 The 30<sup>th</sup> APPAM Conference, Los Angeles, CA (November 6)  
Discussant, “Organizational Decision Making: Causes and Consequences”  
Chair, “Exploring Scientists’ Perceptions about Their Research and Work Environment”

### *Ad-hoc External Reviewer*

- 2021 Decennial academic program reviewer, the International Political Economy MS, Public Policy MPP, and Public Policy and Political Economy Ph.D. programs, University of Texas-Dalla, November 8-10

### *Journals/Publishers*

#### Ad-Hoc Reviewer

*Administration & Society* (2020)  
*American Journal of Evaluation* (2014, 2017, 2019)  
*Complexity, Governance, and Networks* (2016)  
*Computational and Mathematical Organization Theory* (2010)  
*Computers and Industrial Engineering* (2007)  
*Computers, Environment and Urban Systems* (2018)  
*Disaster Medicine and Public Health Preparedness* (2016, 2017)  
*Information Polity* (2015)  
*International Journal of Society Systems Science* (2008, 2009, 2010, 2011, 2014)  
*Journal of Artificial Societies and Social Simulation* (2016)  
*Journal of Health and Human Services Administration* (2020)  
*Journal of Policy Analysis and Management* (2013)  
*Journal of Public Affairs Education* (2009, 2010, 2011, 2013, 2019)  
*Journal of Public Management and Social Policy* (2012)  
*Landscape and Urban Planning* (2020)  
*Policy and Society* (2020)  
*Policy Sciences* (2019)  
*Policy Studies Journal* (2009)  
*Public Administration Review* (2014, 2016, 2017)  
*Public Management Review* (2012, 2015)  
*Review of Policy Research* (2017)  
*Southeastern Geographer* (2016)  
*Urban Studies* (2018)

#### Editorial Board

*Journal of Policy Analysis and Management*, Co-editor (2018-present)  
*International Journal of Society Systems Science* (2008-2010)

Book Proposal Reviewer

Routledge (2020)

Taylor and Francis Group (2017)

Book Reader

SAGE Publishing (2019)

Princeton University Press (2016, 2018)

*University/College/School Committees*

2021	ASU Presidential Postdoctoral Fellowship Committee
2021	Watts College Dean Search Committee
2021	SPA Emergency Management Faculty Search Committee
2021	Watts College Endowed Professor (Urban Solutions) Search Committee
2020-2022	SPA Personnel Committee, Chair (2021-2022)
2020-	SPA Diversity Committee, Chair
2020	Watts College Maryvale 1-Square Mile Initiative Proposal Reviewer
2019-2020	SPA EMHS Lecturer Search Committee, Chair
2019-2020	Watts College EMHS Professor Search Committee
2018-2019	ASU Graduate College Fellowship Review Committee
2018-2019	SPA Data Analytics Faculty Search Committees
2018-2019	SPA Faculty Associate Committee, Chair
2018-2019	Watts College Peer Teaching Policy Ad-hoc Committee
2017-2020	SPA Undergraduate Committee, Director
2017-2018	SPA Study Abroad Program Committee, Chair
2016	Santa Fe Institute/ASU CASS Online MS program Curriculum Committee
2016-2017	SPA Doctoral Committee
2016	SPA Doctoral Comprehensive Exam Ad-hoc Committee
2014-2015	SPA Personnel Committee
2012-2013	SPA PAF505/540/540 and PAF501/503/579 Working Group
2011-2017	SPA Colloquium Organizer
2010-2011	SPA Faculty Search Committee
	SPA Mary Ann Huerta Jenkins Scholarship Committee
	Preparing Future Faculty Program Mock Interviewer
2009-2016	SPA MPA/MPP Committee
2009-2010	SPA PAF505 Core Curriculum Agreement Review Committee
	SPA Technology Ad-hoc Committee
2007-2013	Center for Policy Informatics (CPI), ASU
	Launched Policy Informatics Network website (March 2012)
	Set up Policy Informatics Network Listserv (March 2012)
	APPAM symposium on policy informatics (November 3-5, 2011)
	A special issue on policy informatics, The Innovation Journal (February 2011)
	Round table: Complexity in public policy and management (October 18, 2010)



Hosted a workshop on policy informatics at ASU (February 4-6, 2010)  
 Co-hosted a workshop on risk communication (November 9, 2009)  
 Launched the center website (<http://cpi.asu.edu>) (December 15, 2008)  
 Received approval of the CPI proposal (January 16, 2008)

## AWARDS/HONORS

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- 2020 William Petak Award by the Section on Emergency and Crisis Management, American Society for Public Administration
- 2019 Distinguished Service Award, ASU School of Public Affairs
- 2018 Distinguished Diversity and Inclusion Award, ASU School of Public Affairs  
 ASU Team Leadership Academy IV, Metropolitan Informatics
- 2013 Distinguished Service Award, ASU School of Public Affairs
- 2012 ASU College of Public Programs, Dean's summer support program (\$21,667)
- 2011 ASU College of Public Programs, Dean's summer support program (\$21,667)
- 2009 Health Policy Researcher of the Year, "Incorporating policy criteria in spatial analysis" with A. Desai and R. Greenbaum, Health Policy Institute of Ohio, Columbus, OH  
 ASU College of Public Programs, Dean's summer support program (\$21,667)
- 2008 Travel funding from the 2008 Spatial Filtering Workshop (\$750), The University of Texas at Dallas, June 16-20 [NSF funded]  
 ASU College of Public Programs, Dean's summer support program (\$21,667)
- 2007 Anne Larason Schneider Faculty Endowment for Community Research Awards (\$2,000), College of Public Program, Arizona State University, Phoenix, AZ  
 Robert W. Backoff Research Award (\$1,000), Pre-Commencement Ceremony, John Glenn School of Public Affairs, Ohio State University, Columbus, OH, June 9  
 Travel funding from the Mapping and Analysis for Public Safety program of the National Institute of Justice to present a paper on GIS and ABM, the 9<sup>th</sup> Crime Mapping Research Conference, Pittsburg, PA, March 28-31  
 Travel funding from the Institute for Pure and Applied Mathematics (IPAM) to attend a workshop on Crime Hot Spots: Behavioral, Computational and Mathematical Models, LA, California, January 29 - February 2 [NSF funded]  
 Doctoral Dissertation Award (\$1,000), The 3<sup>rd</sup> Anti-corruption Dissertation Award, Seoul Institute for Transparency (SIT), Korea, January 8
- 2005 Travel funding from the Health Policy Institute of Ohio to present a paper on Medicaid, the Academy of Health's State Health Research and Policy Interest Group Meeting (\$500), Boston, MA, June 25
- 2004 Employee Recognition Award, Ohio Department of Health - William Green Building Auditorium, Columbus, OH, May 10
- 2002 Travel funding for SUDDAN Training, MCH Epi Conference for Pregnancy Risk Assessment and Monitoring System survey data (\$750), Clearwater, FL, December 9-10

## GRANTS

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- 2021 Digital Entrepreneurship in Communities of Color (Co-Principal Investigator), The Ewing Marion Kauffman Foundation (\$20,000), January 15, 2021 – September 30, 2021

- 2020 50 States of COVID-19 Reality: Information, Misinformation and the Efficacy of State Interventions (Principal Investigator), The Institute for Social Science Research Seed Grant, Arizona State University (\$7,500), December 1, 2020 – January 30, 2021
- 2018 Urban Green Spaces Development and Environmental Justice (Principal Investigator), Arizona State University College of Public Service & Community Solutions, Category 5: Planning, Implementation, and/or Mobilization Grant (\$30,000), May 1, 2018 – April 30, 2020
- 2010 Crisis, Emergency, Response, and Preparedness (Principal Investigator), Arizona State University College of Public Programs Research Seed Grant (\$10,850), October 2010-July 2011
- 2010 Sustainability Game (Co-Principal Investigator), Decision Center for a Desert City, Arizona State University (\$40,000), January 2010
- 2009 Building Evidence for Legal Decision-making in Real-time: Legal Triage during Declared Emergencies (Co-Principal Investigator), Robert Wood Johnson Foundation (\$150,000), December 2009-May 2011
- 2009 Risk Communication Analysis and Modeling (Co-Principal Investigator), Arizona Department of Health Services (\$120,000), September 2009-March 2010

## **INTERNATIONAL RESEARCH COLLABORATION**

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- 2018 Big Data Analytics and Social Simulation for Public Safety in Connected Society, Hanyang University Center for Computational Social Science funded by the Korea National Research Foundation, August 2018 – July 2022 (approx. \$8,600 in 2018; \$21,500 in 2019; \$25,000 in 2020)
- 2016 Middle East Respiratory Coronavirus Syndrome Outbreak Response Networks in Korea, The Socio-Informatics Center, Hanyang University, Korea, June-December (\$9,000)
- 2016 A Study of the Citizen-centered Governance System: Comparison and Design (Stage III), Korea University funded by the Korea Research Foundation (\$14,500), September 2016-August 2020
- 2013 A Study of the Citizen-centered Governance System: Comparison and Design (Stage II), Korea University funded by the Korea Research Foundation (\$12,000), September 2013-August 2016
- 2011 Developing Collaborative Governance Processes during the Unification of South and North Korea, the Ministry of Unification, Korea (\$9,000), December 2011- September 2012
- 2010 A Study of the Citizen-centered Governance System: Comparison and Design (Stage I), Korea University funded by the Korea Research Foundation (\$12,000), September 2010-August 2013

## **CONSULTING**

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- 2020 New Technologies and Big Data for Entrepreneurship in Communities. The Ewing Marion Kauffman Foundation (\$5,000)
- 2017 Data-Driven Policymaking. The National Information Society Agency, Korea (\$3,000)
- 2016 Model Framework for Dense Urban Area. Center for Assured and Scalable Data Engineering, Arizona State University, Intra-university consulting (\$1,000)

## **ACADEMIC MEMBERSHIP**

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- American Political Science Association, 2014-2015  
 American Society for Public Administration, 2007-2014

Association for Public Policy Analysis and Management, 2006–Present  
Computational Social Science Society of America, 2009, 2011  
Digital Government Society, 2014-2016  
Midwest Political Science Association, 2018-2019  
Public Management Research Association, 2007–2009, 2019  
Regional Science Association International, 2010  
Urban Affairs Association, 2016-Present