

YUSHIM KIM

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EDUCATION

Ph.D. Public Policy & Management, Ohio State University, 2006
Dissertation title: Analysis for adaptive complex public enterprises
M.P.A. Seoul National University, South Korea, 1997
B.P. Daejon University, South Korea, 1994

FACULTY APPOINTMENTS

Assistant Professor School of Public Affairs, Arizona State University, 2007-
Core Faculty The Center for Policy Informatics, Arizona State University, 2008-
Affiliated Faculty The Decision Theater, Arizona State University, 2007-
Affiliated Faculty The Center for the Study of Institutional Diversity,
Arizona State University, 2007-

EXPERIENCE

Postdoctoral Researcher, John Glenn School of Public Affairs, Ohio State University, 2007

- Managing the \$1.5 million evaluation research of welfare (TANF) demonstration projects in Ohio

Graduate Research Associate, John Glenn School of Public Affairs, Ohio State University, AU 2006

- Developing an agent-based model to simulate spatial and statistical patterns associated with fraud in a public delivery program
- Measuring the effect of a value-added measure on the Ohio Education Accountability system

Graduate Research Associate, Department of Computer Science & Engineering (CSE), Ohio State University, AU 2005

- Media market analysis for the Columbus Dispatch with Clinton Jenkins, Rohit Shenai, and Professor Jay Ramanathan
- Knowledge management for Ohio Health with CSE undergraduate and graduate students
- Consultations and updates for Collaborative for Enterprise Transformation and Innovation Portal - <http://ceti.cse.ohio-state.edu/CETI>

Researcher, Bureau of Nutrition Services, Ohio Department of Health (ODH), 2003-2005

- Data analysis for participant characteristics and breastfeeding rate

- Conducted evaluations on WIC nutrition education, breastfeeding education, and electric benefit transfer (EBT) pilot project
- Developed performance based funding formula
- Supported location decisions using spatial analysis
- Identification of high-risk vendors

Researcher, Bureau of Health Services & Information Operation Services, Ohio Department of Health (ODH), 2000-2002

- Pediatric nutrition surveillance system (PedNSS) / Pregnancy nutrition surveillance system (PNSS) data analysis
- Coordinating PedNSS/PNSS data process with the Center for Disease Control and Prevention (CDC), Management Information System department, and Bureau of Nutrition Services at ODH
- Electric benefit transfer (EBT) data analysis
- Research & evaluation on health outcomes such as breastfeeding, anemia, and overweight prevalence in Ohio

Internship, Ohio Department of Health (ODH), 1999-2000

- Ohio Vital Statistics data analysis for county profiles in ODH Website
- Ohio Maternal and Child Health need assessment data analysis

Teaching Assistant, Seoul National University, 1995-1998

- Assistant for a public finance class at the Masters level

RESEARCH & TEACHING INTERESTS

Public Policy Analysis

Policy Informatics

Health/Welfare Policy

COURSES TAUGHT (TEACHING)

Public Policy Analysis (Graduate): Fall 2007, Spring 2008, Fall 2008

Complexity in Public Policy & Management (Graduate): Fall 2008

RESEARCH

Peer-Review Journal Articles

Desai, A., Greenbaum, R., & **Kim, Y.** (forthcoming). Incorporating policy criteria in spatial analysis. *American Review of Public Administration*.

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.

Kim, Y. (2007). Using spatial analysis for monitoring fraud in a public delivery program. *Social Science Computer Review*, 25(3). 287-301.

Kim, Y., & Lee, M. (2007). Agent-based models as a modeling tool for complex policy and managerial problems. *The Korean Journal of Public Administration*, 45(2), 25-50.

Peer-Review Book Chapter

Kim, Y., & Xiao, N. (2007). 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*. Hershey, PA: Idea Group Publishing.

Under Review

Kim, Y., Kim, S., & Kim, H. Transfer from a home and community-based long-term care program to a nursing home: The Ohio experience. *International Journal of Public Policy*. Special issue on public affairs informatics. Submitted in May 2007

Working Papers

Enhancing policy analysis: The role of agent-based models (with Desai)

Punishment of wrongdoing: The Interplay of severity and certainty (with Zhong)

Policy informatics: Nuts and bolts (with Johnston)

Medicaid cost management (with Murali)

PRESENTATIONS

2008 Johnston, E., & **Kim, Y.** "The use of policy informatics to understand the METRO transportation Megaprojects in Phoenix," the 68th American Society for Public Administration (ASPA) Annual Conference, Dallas, Texas

2007 **Kim, Y.** "The dynamics of public performance management," The 9th National Public Management Research Conference (PMRC). University of Arizona, Tucson, AZ, October 25-27

Kim, Y., & Desai, A. "Dynamic spatial models of fraudulent behavior: Combining Geographical Information Systems and Agent-Based Models," the 9th Crime Mapping Research Conference, Pittsburgh, PA. March 28-31

Kim, Y., Kim, S., & Kim, H. "Disenrollment from a home and community-based long-term care program to a nursing home: Ohio's experience," the 67th American Society for Public Administration (ASPA) Annual Conference, Washington, D.C., March 25-27

Kim, Y. "Simulating statistical and spatial patterns of fraud using an agent-based model," John Glenn School of Public Affairs, Doctoral Colloquium, Columbus, OH, January 5

Kim, Y. "Analysis for adaptive complex public enterprises," Guest talk at Geography 983, Ohio State University, Columbus, OH, January 3

2006 **Kim, Y., & Desai, A.** "The role and effect of a value-added measure on the Ohio education accountability system," Accountability Task Force, Ohio Department of Education, Columbus, OH, August 28

Kim, Y. "Incident and knowledge management at Ohio Health," CETI Industry Day showcase, Ohio State University, Columbus, OH, July 28

- 2005 **Kim, Y.** “Complex behavior: Emerging spatial patterns between corrupt agents,” Computer Science and Engineering 888, Ohio State University, Columbus, OH, November 14
- Kim, Y.** “Detecting fraud in public service delivery programs,” the 27th Association for Public Policy Analysis and Management (APPAM) Annual Research Conference in Washington, D.C., November 3-5
- Desai, A., **Kim, Y.**, & Greenbaum, R. “Estimating local effects of Medicaid expenditure changes,” the 27th Association for Public Policy Analysis and Management (APPAM) Annual Research Conference in Washington, D.C., November 3-5
- Kim, Y.** “Identifying high-risk vendors in public service delivery programs,” Criminal Justice Research Center, Ohio State University, Columbus, OH, October 28
- Desai, A., **Kim, Y.**, & Greenbaum, R. “Estimating and illustrating the county level effects of reduced Medicaid expenditures,” AcademyHealth’s State Health Research and Policy Interest Group Meeting in Boston, MA, June 25
- Desai, A., **Kim, Y.**, & Greenbaum, R. “Estimating local effects of Medicaid expenditure changes,” Statewide Rural Health Conference in Columbus, OH, June 3
- Desai, A., **Kim, Y.**, & Greenbaum, R. “Estimating the results of reduced Medicaid expenditures,” Testimony presented to the House sub-committee on Human Services, Ohio Legislature
- Kim, Y.** “Identifying high-risk vendors,” School of Public Policy & Management, Doctoral Colloquium, Ohio State University, Columbus, OH, April 22
- 2003 **Kim, Y.** “How to read Pediatric Nutrition Surveillance System report: highlighted with overweight,” The Ohio Women, Infants, and Children (WIC) Program Directors Meeting in Columbus, OH, April 29
- 2001 **Kim, Y.**, Davis, A., & Shrock, R. “Ohio Pediatric Nutrition Surveillance System report: 5-year trend,” the Ohio WIC Directors Meeting in Columbus, OH

PROFESSIONAL REPORTS

- 2006 **Kim, Y.**, & Desai, A. The role and effect of a value-added measure on the Ohio education accountability system, Ohio Department of Education. Columbus, OH
- 2005 Desai, A., & **Kim, Y.** Growth management study for Village of Plain City, OH, Plain City, OH
- Desai, A., **Kim, Y.**, & Greenbaum, R. Estimating local effects of Medicaid expenditure changes, Health Policy Institute of Ohio. Columbus, OH
- Desai, A., **Kim, Y.** & Greenbaum, R. Estimating local effects of Medicaid expenditure changes, *The Health Data Brief December 1, 2005*, Health Policy Institute of Ohio, Columbus, OH
- Breastfeeding peer helper program evaluation in the Ohio WIC program, ODH
- 2004 Electric benefit transfer evaluation, 2002-2004, ODH
- 2003 WIC vendor activity analysis, ODH
- Back to basic breastfeeding education evaluation, 2002-2003, ODH

- 2002 WIC nutrition education evaluation, ODH
Ohio WIC pregnancy nutrition surveillance system report 1999-2000, ODH
Linking datasets (with R. Duffy, L. Mattocks, B. J. Mattson, and H. Ye), Data Linkage Sub-committee, ODH
- 2001 Pediatric nutrition surveillance system: The 5-year trend of WIC anemic children in Ohio, ODH
Pediatric nutrition surveillance system: The 5-year trend of WIC overweight children in Ohio, ODH
- 1999 Maternal child health (MCH) Need Assessment data analysis, ODH
Data analysis for Ohio county profile, ODH

PROFESSIONAL TRAINING AND WORKSHOPS

- 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 9th Crime Mapping Research Conference, Pittsburg, PA, March 28-31
“Crime Hot Spots: Behavioral, Computational and Mathematical Models,” hosted by the Institute for Pure and Applied Mathematics, University of California, LA, CA, January 29 - February 2
- 2006 “Space, Networks and Social Influence,” National Consortium on Violence Research (NCOVR) Sponsored Workshop, University of California, Irvine, CA, February 9-11
- 2005 Java Programming, Computer Workshop, Columbus, OH, January
- 2004 Ohio WIC Vendor Management System Training, ODH, January 12 - March 31
- 2003 Epi-Info 2002, Ohio State University, July 29 - 30
Workshop for Census 2000 data, Columbus, OH, May 28
- 2002 The CDC Pediatric Nutrition Surveillance System Conference, Atlanta, GA, May
ESRI Introduction to ArcGIS I, Ohio State University, March 26
- 2001 Applied Regression Analysis, Ohio State University, June 18 - 22
Epidemiologic Methods, Ohio State University, June 25 - 29
STATA, Ohio State University
- 2000 Advanced Access, Columbus, OH, December 14
Intermediate Access, Columbus, OH, November 27

SKILLS

Java, Java Script, HTML, CGI

STATA, SAS, SPSS, Minitab, Eviews, SYSTAT, Matlab, Epi-Info

ArcView, ArcGIS, GeoDa

HONORS AND AWARDS

- 2007 Anne Larason Schneider Faculty Endowment for Community Research Awards (\$2,000), College of Public Program, Arizona State University, Phoenix, AZ, October
- 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 9th 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
- Doctoral Dissertation Award (\$1,000), the 3rd Anti-corruption Dissertation Award, Seoul Institute for Transparency (SIT), South Korea, January 8
- 2005 Travel funding (\$500) 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, Boston, MA, June 25
- 2004 Employee Recognition Award, Ohio Department of Health - William Green Building Auditorium, Columbus, OH, May 10
- 2002 Travel funding (\$750) for SUDDAN Training, MCH Epi Conference for Pregnancy Risk Assessment and Monitoring System survey data, Clearwater, FL, December 9-10
- 1997 Excellent Thesis Award, "Implementation of cultural art policy by a local agency: A case study of Kwang-Ju Biennale," Unpublished Master Thesis, Seoul National University
- 1995 Teaching Assistantship until 1998, Seoul National University
- 1990 Tuition Exemption Scholarships until 1994, Daejon University

REVIEWER

Academic Journals - Manuscripts

Computers and Industrial Engineering

EDITORIAL BOARD

Member of *International Journal of Social Systems Science (IJSSS)*

PROFESSIONAL AFFILIATIONS

Association for Public Policy Analysis and Management (APPAM)
American Society for Public Administration (ASPA)
AcademyHealth