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Current Research Interests

- Policy Informatics - Assessing how models, simulations, and tools can aid individuals, groups, and communities make and evaluate policy choices
- Helping people be involved in the decisions that effect their lives
- Understanding collaborative process management focusing on implementing and sustaining collaborations in civic, business, and academic contexts
- Applying complex systems methodology and theory using agent based modeling as a complement to traditional quantitative and qualitative research methods

Education

2007	Ph.D., <i>Information</i> - University of Michigan <i>STIET Fellow – NSF IGERT Fellowship 2003 - 2005</i> <i>IDEAS Fellow – NSF IGERT Fellowship 2006 - 2007</i> <i>Dissertation</i> , Growth matters: Identifying Best Practices in Growing Civic Collaborations: Judith Olson (Chair), George Furnas, Scott Page, Scott Moore, Darrin Hicks. School of Information, University of Michigan.
2007	Graduate Certificate, <i>Complex Systems</i> - University of Michigan
2000	Masters of Business Administration, <i>Business Administration</i> - University of Denver
2000	Masters of Science, <i>Information Technology</i> - University of Denver
2000	Bachelor of Science, <i>Computer Science and Psychology</i> - University of Denver <i>Honors Thesis</i> , Using Computational Modeling to Understand Object Individuation in Infants. Advisors: Yuko Munakata, & Scott Leutenegger. Department of Psychology, University of Denver.
2000	Minor, <i>Mathematics</i> - University of Denver

Refereed Publications

- Johnston, E., Nan, N., Hicks, D., & Zhong, W. (2008) Between implementation and outcomes, growth matters: Grounding an agent-based modeling approach for understanding collaboration process management. Accepted: Special Journal of Complexity and Innovation of *The Innovation Journal*.
- Nan, N., & Johnston, E. (2008) Exploring the Role of Facilitators in Sustained Success with GSS: A Study Using Multi-Agent Modeling. Accepted: *Journal of the Association of Information Science*.
- Nan, N., Johnston, E., & Olson, J. (2008) Unintended Consequences in Central-Remote Office Arrangement: A Study Coupling Laboratory Experiment with Multi-Agent Simulation. *Computational & Mathematical Organization Theory*. Vol 14 (2). 57–83.
- Hicks, D., Larson, C., Nelson, C., Olds, D. L., & Johnston, E. (2008) The Influence of Collaboration on Program Outcomes: The Colorado Nurse-Family Partnership. *Evaluation Reveview*. First published on March 17, 2008 as doi:10.1177/0193841X08315131.
- 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, Special issue on Poverty and Human Development*. Volume 5, Number 2. 81-91.
- Johnston, E., & Hicks, D. (2004) Speaking in teams: Motivating a pattern language for collaboration. *Interdisciplinary Description of Complex Systems*. Volume 2, Number 2. 136–143.
- Johnston, V., & Johnston, E. (2004) Educating the Norwegian nation: Traffic engineering and technology diffusion by Per Ostby: Notes from the field. *Comparative Technology Transfer and Society*. Volume 2, Number 3. 268-272.

Refereed Conference Publications

- Lampe, C., Johnston, E., & Resnick, P. (2007) Follow the reader: Filtering comments on Slashdot. Forthcoming in the *Proceedings of the SIGCHI conference on Human Factors in computing systems*, CHI-2007. 1253-1262.
- Johnston, E. (2006) Making difficult collaboration simple: Slow growth as a mechanism for sustained cooperation. *North American Association for Computational Social and Organizational Science*. NAACSOS-2006.
- Bos, N., Olson, J., Nan, N., Hoch, S., & Johnston, E. (2006) Collocation blindness in partially distributed teams: Is there a downside to being collocated. *Proceedings of the SIGCHI conference on Human Factors in computing systems*, CHI-2006. 1313-1321.
- Lampe, C., & Johnston, E. (2005) Follow the (Slash) dot: Effects of feedback on new users in a virtual public sphere. *Proceedings of the 2005 international ACM SIGGROUP conference on supporting group work*. 11 – 20.
- Nan, N., Johnston, E., Olson, J., & Bos, N. (2005) Beyond being in the lab: Using multi-agent modeling to isolate competing hypotheses. *Proceedings of the SIGCHI conference on Human Factors in computing systems*, CHI-2005. 1693-1696.

Refereed Conference Paper Presentations

- Kim, Y., & Johnston, E. (2008, September) Policy Informatics v1.0. Minnowbrook 3. Lake Placid, New York.
- Johnston, E., Ayyangar, M., & Kim, Y. (2008, March) The Use of Policy Informatics to Understand the METRO Transportation Megaproject in Phoenix. Panel: *Transforming Transportation Mega-Projects: The Challenges of Interconnectivity across Modes, Sectors, Jurisdictions, Organizations, and Interests*. American Society for Public Administration National Conference. Dallas, Texas.
- Hicks, D., Larson, C. Nelson, C., Olds, D., & Johnston, E. (2007) Collaboration in community health initiatives: The relationship between process quality and attrition in the Colorado Nurse-Family Partnerships. *NCA (National Communication Association)*. Chicago, Illinois.
- Etzion, H., Johnston, E., & Moore, S. (2006, November) Managing online sales: the simultaneous use of posted price and open-bid auctions. *INFORMS (Institute for Operations Research and the Management Sciences)*. Pittsburg, Pennsylvania.
- Johnston, E., & Yamami, K. (2006, May) Setting the pace: Understanding the dynamics of adopting sustainable standards for higher education in Uzbekistan. *Higher Education Management: International Trends & Local Sustainability*. Tashkent, Uzbekistan.

Refereed Conference Presentations

- Johnston, E. (2006, October) Learning how to build successful collaborations from theory, practice, and simulation, *Doctoral Consortium at the I-Conference*. Ann Arbor, Michigan.
- Johnston, E. (2005, July) Real versus realistic: A symposium on tradeoffs of using accurate detail in simulations games. *International Simulation and Gaming Association Annual Conference*. Atlanta, Georgia.
- Johnston, E., Bos, N., Nan, N. (2005, May) Grounding agent based models with real world data: Lessons from theory and practice. *International Workshop - Describing Complex Systems*. Zagreb, Croatia.
- Rader, E., Johnston, E. (2005, May) Cooperation and competition in video games: Implications for collaborative systems. *Great Lakes Information Studies Conference*. Montreal, Canada.
- Johnston, E. (2002, February) The new category of authentication: Behavior. *RSA Conference*. San Jose, California.
- Johnston, E. (2001, February) Neural networks role in adaptive authentication management. *RSA Conference*. San Francisco, California.

Handbook Chapter

- Johnston, V., Seidenstat, P, & Johnston, E. (2007) Transportation security policy. In J. Plant (Ed.). *Handbook of Transportation Policy and Administration*.

Professional Newsletter Article

- Johnston, V., Seidenstat, P, & Johnston, E. (2005) Transportation security management adjustments, *Intermodal Fare – ASPA Section on Transportation Policy and Administration*. 12-20.

Grants Awarded

Johnston, E. (Primary Investigator), Teasley, S, & Hemphill, L. (2008) Virtual Organizations as Socio-technical Systems (VOSS): Joining a Virtual Organization: A Multi-Method Study of Newcomers to Established Collaborations. Agency: National Science Foundation (NSF).

Johnston, E. & Kim, Y. (2007) Serving our Communities with Policy Informatics. Anne Larason Schneider Faculty Endowment for Community Research Award. Agency: College of Public Programs, Arizona State University.

Johnston, E. (2006) Learning How to Build Successful Civic Collaborations from Theory, Practice, and Simulation. Nonprofit and Public Management Doctoral Research Award. Agency: Nonprofit and Public Management Center, University of Michigan.

Johnston, E. (1998) Using Neural network modeling to Understand Infant Cognitive Development. Partners in Scholarship Research Grant. Agency: University of Denver.

Fellowships and Scholarships

- Integrative Graduate Education and Research Traineeship (IGERT) Fellowship, Institutions – Diversity – Emergence – Adaptation – Structures (IDEAS) (2006 – 2007), National Science Foundation (NSF)
- Integrative Graduate Education and Research Traineeship (IGERT) Fellowship, Socio-Technical Infrastructure for Electronic Transactions (STIET) (2003 – 2005), National Science Foundation (NSF)
- Presidential Fellowship (2003), University of Notre Dame, Declined
- Debate Academic Scholarship (1997 – 2000), University of Denver
- Heckman Scholar (1998), Daniels College of Business, University of Denver
- American Psychological Association (APA) Summer Science Institute Scholar (1997), Johns Hopkins University
- Buchtel Scholar for Academic Merit (1995), University of Denver

Honors and Awards

- Outstanding Graduate Student Instructor, School of Information, University of Michigan (2007)
- The Gary M. Olson Outstanding Doctoral Student Award, School of Information, University of Michigan (2006)
- Honorary Citizenship in Croatia, granted by the Mayor of Dubrovnik (2001)
- Magna Cum Laude University Honors, University of Denver (2000)
- Phi Beta Kappa (Gamma chapter), University of Denver (2000)
- Honors in Business, University of Denver (2000)
- Honors in Psychology, University of Denver (2000)
- Honors in Mathematics and Computer Science, University of Denver (2000)
- Beta Gamma Sigma, Graduate Business Honorary, University of Denver (2000)
- Shaklee-Trowill Research Award, top undergraduate thesis, University of Denver (1999)
- Outstanding Research, Citizenship, & Scholarship in Psychology, University of Denver (1998, 1999)
- Hornbeck Scholar (Five times), Awarded for earning a 4.0 for a term, University of Denver (1995, 1996, 1996, 1997, 1998)
- Dean's List (Eight times), University of Denver (1995–1998)
- Psi Chi, Psychology Honorary, University of Denver (1996-1998)
- Pi Mu Epsilon, Math and Computer Science Honorary, University of Denver (1997)
- Alpha Lambda Delta-National Freshman Honorary, University of Denver (1996)
- Nominee for the Bernard Spilka Scholar in Psychology, University of Denver (1997)

- Golden Key Honor Society Member, University of Denver (1996)
- Finalist, Oxford Intersivity Debate Tournament, University of Denver (1995)

Invited Seminars, Workshops, and Posters

- Johnston, E. (2007, September) *Growth matters: Identifying Best Practices in Growing Civic Collaborations*. School of Public Affairs Research Colloquium. Arizona State University, Phoenix, Arizona.
- Johnston, E. (2007, April) Informing policy decisions with agent-based modeling. *Management of Information Systems Seminar*, University of Oklahoma, Norman, Oklahoma.
- Johnston, E. (2007, January) Growth matters: How modifications in the rate of growth can influence performance outcomes in coordination problems. *Operations Management Seminar*, Massachusetts Institute of Technology, Cambridge, Massachusetts.
- Johnston, E. (2006, October) Growth matters: How modifications in the rate of growth can influence performance outcomes in coordination problems. *Socio-Technical Infrastructure for Electronic Transactions (STIET) Research Workshop*, Ann Arbor, Michigan.
- Johnston, E. (2006, October) Growth matters: How modifications in the rate of growth can influence performance outcomes in coordination problems. *Doctoral Consortium Poster Session*, Ann Arbor, Michigan.
- Johnston, E. (2006, October) Growth matters: How modifications in the rate of growth can influence performance outcomes in coordination problems. *Institute for Complex Adaptive Matter (ICAM) Poster Session*, Ann Arbor, Michigan.
- Johnston, E. (2006, September) Cooking up coordination: The recipe to growing successful collaborations. *Croatian Interdisciplinary Society*. Zagreb, Croatia.
- Johnston, E. (2006, April) Why I chose these settings: Creating support for variable setting choices when calibrating a model. *Complex Systems Advance Academic Workshop (CSAAW) Speaker Series*. Ann Arbor, Michigan
- Johnston, E. (2006, February) Learning how to build successful civic collaborations from theory, practice, and simulation. *Human Computer Interaction Consortium*. Winter Park, Colorado.
- Johnston, E. (2005, May) Using Agent-based modeling to explore the relationship between community awareness and independent decision coordination. *Socio-Technical Infrastructure for Electronic Transactions (STIET) Research Workshop*. Ann Arbor, Michigan.
- Johnston, E. (2005, February) Science of communities: Applying the lessons of scientific collaboration to civic collaborations. *Interdisciplinary Committee on Organizational Studies (ICOS) Dissertation Poster Session*. Ann Arbor, Michigan.
- Johnston, E., Lampe, C., (2004, October) Praising and hazing: Shaping new member behavior in an online community. *Socio-Technical Infrastructure for Electronic Transactions (STIET) Research Workshop*. Ann Arbor, Michigan.
- Johnston, E., (2004, October). Building social collaborations: The Colorado Trust Initiatives. *Socio-Technical Infrastructure for Electronic Transactions (STIET) Research Workshop*. Ann Arbor, Michigan.

Johnston, E., (2004, June) A model of a model of a factory that makes models. *Socio-Technical Infrastructure for Electronic Transactions (STIET) Research Workshop*. Ann Arbor, Michigan.

Papers Under Review and Work in Progress

Kim, Y., Johnston, E., Edwards, J. Gaining policy insights from imperfect data and information. Intended for: *Public Administration Review*, 2008.

Johnston, E., Nan, N., Hicks, D. How to Engender Sustainable Trust during Program Implementation: Finding Smart Practices with a Mixed Method Case-Study and an Agent-Based Model. Intended for: *Journal of Public Administration Research and Theory*, 2008.

Rameriz De La Cruz, E. & Johnston., E., Combining a Game Theory and Agent-based Modeling Approaches to Understand Managerial Behavior under Performance-Based Budgeting. Intended for: *American Review of Public Administration*, 2008

Professional Positions

- Assistant Professor, School of Public Affairs, Arizona State University (2007 – present)
- Affiliated Faculty, Center for Policy Informatics, Arizona State University (2008 – present)
- Affiliated Faculty, Decision Theater, Arizona State University (2007 – present)
- Affiliated Faculty, Applied Mathematics for the Life and Social Sciences, Arizona State University (2007 – present)
- Affiliated Faculty, Center for the Study of Institutional Diversity (2007 – present)
- Graduate Student Mentor, University of Michigan, Ann Arbor, MI. (2006 – 2007)
- Chief Technical Officer, Croma Business Academy, Zagreb, Croatia. (2003)
- Director of Technology, Delaine Security Services. Denver, Colorado. (2001 – 2002)
- Director of Advanced Technologies, Authentor Systems. Denver, Colorado. (2001)
- Neural Network Engineer, Authentor Systems. Denver, Colorado. (1999 – 2001)
- Signal Engineer, Denver Signal Design. Denver, Colorado. (1996 – 1999)

Professional Teaching Positions

- PAF 591, *ePublic Administration: The Use of Information for PA Professionals*, Arizona State University (2008)
- PAF 591, *Introduction to Policy Informatics*, Arizona State University (2008)
- PAF 573, *Advanced Regression*, Arizona State University (2007)
- SI 502, *Choice and Learning*, 2 discussion sections, University of Michigan (2006)
- SI 501, *Use of Information*, 2 discussion sections, University of Michigan (2005)
- Research Workshop, *Using Neural Networks in Advanced Psychology Research*, University of Denver (2000)
- CS 1671, *Introduction to Computer Science I*, University of Denver (2000, 2001)

Additional Training and Education

- *Complex Systems and Social Simulations*, Summer Course, Central European University, Budapest Hungary (2008)

Service

- Informatics Ph.D., Executive Team, Arizona State University (2007 – present)
- Doctoral Committee, School of Public Affairs, Arizona State University (2007 – present)
- Editorial Board, *Interdisciplinary Description of Complex Systems Scientific Journal* (2005 – present)

- Graduate Student Mentor – School of Information, University of Michigan (2006 – 2007)
- Research Committee, School of Information, University of Michigan (2005 – 2007)
- Doctoral Committee, School of Information, University of Michigan (2004 – 2005)
- Doctoral Student Organization School of Information, University of Michigan, President (2004 – 2005)
- Psi Chi, University of Denver, President (1997 – 1998)
- Psi Chi, University of Denver, Vice President (1996 – 1997)

Professional Journal and Conference Review

- *Policy Studies* (2008)
- *The Information Society* (2008)
- *Public Administration Quarterly* (2008)
- *iSchool Conference 2008* (2007)
- *Interdisciplinary Description of Complex Systems – Scientific Journal* (2007)
- *Journal of the Association of Information Systems* (2007)
- *Conference on Human Factors in Computing Systems, CHI-2006* (2006)
- *Journal of Computer Mediated Communication* (2005)

Professional Associations

- Alliance for Innovation
- American Society of Public Administration – ASPA
 - Complexity Section
 - Transportation Section
- American Society of Information Systems & Technology – ASIS&T