

JOHN VOIKLIS: CURRICULUM VITAE***Contact Information***

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Education

The Ohio State University	English	B.A., 1991
School of the Arts, Columbia University	Poetry	MFA, 1994
New England Complex Systems Institute, MIT	Complex Systems	Cert., 2006
Columbia University	Psychology	Ph.D., 2008

Appointments

2011 Faculty, Summer Research Institute, Center of Excellence on Port Security

2011-Present Research Assistant Professor, Stevens Institute of Technology

2010 Adjunct Assistant Professor of Statistics, Teachers College, Columbia University

2010 Instructor, U.S. Department of Homeland Security, Center of Excellence on Port Security

2008-2010 Post-Doctoral Research Associate, Stevens Institute of Technology

2006-2007 Graduate Research Assistant, Teachers College, Columbia University

2006-2007 Teaching Assistant, Teachers College, Columbia University

2003-2006 Ben and Grace Wood Fellow, Teachers College, Columbia University

1999-2001 Instructor, Parsons School of Design

Grants & Fellowships

Principle Investigator. Autocatalysis in Social Networks: Reciprocity, Imitation, and Other Trend-Producing Forces. Intelligence Community 2009 Postdoctoral Research Fellowship. Selected for award. \$240,000, Pending allocation of funds.

Co-Investigator: Crowdsourcing creativity: Experiments in design (2010-2013, NSF IIS-0968561). The goal of this study is to design a crowdsourcing system, in which simple tasks are sequentially applied to sets of crowds, so that the crowds can collectively solve complex social problems. I investigate the social-pragmatic cues people derive from the products of their predecessors when "reverse-engineering" the intentions of those predecessors.

Co-Investigator: Cognitive and interpersonal challenges to coastal and port security (2008-2012, DHS 2008-ST-061-ML0001). The goal of this grant is to improve inter-agency collaboration by investigating which psychological mechanisms promote the coordination of instrumental and interpersonal interests in joint activities. In addition to designing and running experiments, I advise the US Department of Homeland Security on the design of training scenarios.

Articles, Reports & Chapters

Kapur, M., Voiklis, J., & Kinzer, C. (in press). A complexity-grounded model of or the emergence of convergence in CSCL groups. In S. Puntambekar, G. Erkens, & C. Hmelo-Silver (Eds.), *Analyzing Interactions in CSCL: Methodologies, Approaches and Issues*. Springer.

Kapur, M. & Voiklis, J. (in press). Large-Scale Collective Dynamics: Theoretical and Methodological Arguments for Expanding the Computer-Supported Collaborative Learning (CSCL) Research Agenda.

Voiklis, J. and Corter, J. E. (2012). Conventional Wisdom: Negotiating Conventions of Reference Enhances Category Learning. *Cognitive Science*. doi: 10.1111/j.1551-6709.2011.01230.x

Voiklis, J. (2011). A fast & frugal measure of well-being using word frequencies (Report to sponsor 12.2011). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

Voiklis, J. (2011). Tracking the lifecycle of events using word frequencies (Report to sponsor 11.2011.A). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

Voiklis, J. and Ben-Zvi, T. (2011). The stochastic world of Twitter: predicting network links using linguistic commonalities (Report to sponsor 11.2011.B). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

Voiklis, J. (2011). Early detection of events from shifts in word frequency (Report to sponsor 10.2011.A). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

Voiklis, J. and Ben-Zvi, T. (2011). The stochastic world of Twitter: predicting network links from "retweet" behavior (Report to sponsor 10.2011.B). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

Mason, W. and Voiklis, J. (2011). Collaboration processes: multi-agent modeling of social-learning theories (Report to sponsor 10.2011.C). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

Voiklis, J. (2011). Beating the news cycle: even-related shifts in word frequency (Report to sponsor 09.2011.A). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

Voiklis, J. and Ben-Zvi, T. (2011). The stochastic world of Twitter: predicting network links from topical interests (Report to sponsor 09.2011.B). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

Voiklis, J. (2011). Retro-dicting the "Arab Spring" protests from even-related shifts in word frequency (Report to sponsor 08.2011). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

Voiklis, J. (2011). The stochastic world of Twitter: constructing topic networks (Report to sponsor 07.2011). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.

- Voiklis, J. (2011). Identifying events from shifts in word frequency (Report to sponsor 06.2011). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.
- Voiklis, J. (2011). Detection of hostile intent at entry control points, final (Report to sponsor TO37.05.2011). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.
- Voiklis, J. (2011). Detection of hostile intent at entry control points, experiments (Report to sponsor TO37.04.2011). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.
- Voiklis, J. (2011). Detection of hostile intent at entry control points, technical specifications (Report to sponsor TO37.03.2011). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.
- Voiklis, J. and Nickerson, J.V. (2011). Coordinating interests in emergency decision-making (Report to sponsor CSR.Y4.2011). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.
- Voiklis, J. and Nickerson, J.V. (2010). Cognitive and interpersonal challenges to coastal and port security (Report to sponsor CSR.Y3.2010). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.
- Voiklis, J. (2009). Detecting hostile intent through movement patterns (Report to sponsor 08.2009). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.
- Voiklis, J. and Nickerson, J.V. (2009). Collaborative decision-making for coastal and port security (Report to sponsor CSR.Y2.2009). Hoboken, NJ: Center for Decision Technologies, Stevens Institute of Technology.
- Kapur, M., Voiklis, J., and Kinzer, C. K. (2008). Sensitivities to early exchange in synchronous computer-supported collaborative learning (cscl) groups. *Computers & Education*, 51(1):54-66.
- Voiklis, J. and Nickerson, J.V. (under review). Revisiting “The [Social-Cognitive] Nature Of Saliency”: Social-Cognitive Effort Focuses Attention on the "Next Most Obvious" Bargaining Compromise--Equal Shares.
- Voiklis, J. and Nickerson, J. V. (under review). Tort reform: cognitive perspective taking promotes attributions of “oblique” intent for side effects of intentional action.
- Voiklis, J. (in preparation). Happy talk: a fast and frugal measure of well-being based on online chatter.
- Voiklis, J. (in preparation). Show me what I cannot show myself: deixis improves anomaly detection.
- Voiklis, J. (in preparation). Perspective-taking dampens and empathy exacerbates in-group/out-group biases during tacit bargaining.
- Voiklis, J. (in preparation). Perspective-taking dampens and empathy exacerbates power asymmetries and disgust during tacit bargaining.

Voiklis, J. (in preparation). Learning from predecessors dampens satisficing and pre-existing biases in discriminating friend from foe.

Conference Proceedings, Presentations, & Invited Talks

Voiklis, J. (2012). The pragmatics of category learning. Columbia University.

Voiklis, J. and Corter, J. E. (2011). The social pragmatics of category learning. In L. Carlson, C. Hölscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, page 774, Austin, TX. Cognitive Science Society.

Voiklis, J. and Nickerson, J. V. (2011). Tort reform: negligence explains attributions of intentionality for negative side effects. In L. Carlson, C. Hölscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*, page 776, Austin, TX. Cognitive Science Society.

Voiklis, J. (2011). A social-pragmatic account of category learning. Columbia University.

Voiklis, J. (2010). Towards a pragmatic account of category learning. Yeshiva University.

Voiklis, J. and Nickerson, J. V. (2010). Responding to coordination problems before bargaining primes tacit agreement in distributive games. In Association for Psychological Science, 22nd Annual Convention. Boston, MA.

Voiklis, J. and Corter, J. E. (2009) Referential communication, not labeling alone, affects categorization. 50th Annual Meeting of the Psychonomic Society. Boston, MA.

Voiklis, J. (2009). A thing is what we say it is: communication enhances category discovery. New York University.

Kapur, M., Voiklis, J., & Jacobson, M. J. (2009). A Complexity-Grounded Case for Integrating Computational, Quantitative, and Qualitative Methods. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.

Voiklis, J. and Corter, J. E. (2008). Cooperative categorization: Coordination of reference and categories in learning a joint prediction task. In Love, B., Mcrae, K., and Sloutsky, V., editors, *Proceedings of the 30th Annual Conference of the Cognitive Science Society*, page 1206, Austin, TX. Cognitive Science Society.

Kapur, M., Hung, D., Jacobson, M., Voiklis, J., Kinzer, C., & Chen Der-Thang, V. (2007). Emergence of learning in computer-supported, large-scale collective dynamics: A research agenda. In C. A. Clark, G. Erkens, & S. Puntambekar (Eds.), *Proceedings of the International Conference of Computer-supported Collaborative Learning*, pages 323-332. Mahwah, NJ: Erlbaum.

Kapur, M., Voiklis, J., & Kinzer, C. (2007). Sensitivities to initial exchange in synchronous computer-supported collaborative learning (CSCL) groups. In C. A. Clark, G. Erkens, & S. Punteambekar (Eds.), *Proceedings of the International Conference of Computer-supported Collaborative Learning*, pages 333-343. Mahwah, NJ: Erlbaum.

Voiklis, J. (2006). An Active Walk through Semantic Space. The International Conference on Complex Systems, Boston, MA.

Voiklis, J., & Kapur, M. (2006). Two walks through problem space. The International Conference on Complex Systems, Boston, MA.

Voiklis, J., Kapur, M., Kinzer, C., and Black, J. (2006). An emergentist account of collective cognition in collaborative problem solving. In Sun, R. and Miyake, N., editors, *Proceedings of the 28th Annual Conference of the Cognitive Science Society*, pages 858–863, Vancouver, British Columbia.

Kapur, M., Voiklis, J., Kinzer, C., and Black, J. (2006). Insights into the emergence of convergence in group discussions. In Barab, S., Hay, K., and Hickey, D., editors, *ICLS '06: Proceedings of the 7th International Conference on Learning Sciences*, pages 300–306. International Society of the Learning Sciences.

Kapur, M., Voiklis, J., and Kinzer, C. (2005). Problem solving as a complex, evolutionary activity: a methodological framework for analyzing problem-solving processes in a computer-supported collaborative environment. In Koschmann, T., Chan, T.-W., and Suthers, D. D., editors, *Computer support for collaborative learning 2005: The Next 10 Years!*, pages 252–261, Taipei, Taiwan.

Kapur, M., Voiklis, J., and Kinzer, C. (2005). Studying problem solving through the lens of complex systems science: A novel methodological framework for analyzing problem-solving processes. In Bara, B., Barsalou, L., and Bucciarelli, M., editors, *Proceedings of the 27th Annual Conference of the Cognitive Science Society*, pages 1096–1101, Stressa, Italy.

Voiklis, J., Black, J., and Kaplan, D. (2004). SKRAPPLE: enabling media-based study schools, apprentice schools, and samba schools. In *Second International Conference on Creating, Connecting and Collaborating through Computing (C5'04)*, pages 34–41, Kyoto, Japan.

Synergistic Activities

Reviewer for Cognitive Development.

Reviewer for Cognitive Sciences Society Annual Conference.

Reviewer for European Cognitive Science Annual Conference.

Organizing Committee, Workshop on Social Computing and Collective Intelligence, COGSCI 2011

Test Administrator. 2006 Data Collection, Big Math for Little Kids. Center for Children & Technology.

Instructor (2005) Ocean of Know. Teacher development workshops on robotics, programming, and participatory simulations.

Instructor (2001-2003). Vision Education and Media. In-class and after-school workshops on robotics and game programming.

Specification Author (1998-1999). International Digital Publishing Forum (formerly Open eBook Forum). Developed Open eBook Forum Publication Structure v1.0, a standard for electronic books.

Professional Affiliations

American Association for the Advancement of Science
Association for Psychological Science
Cognitive Science Society
The Psychonomic Society
Society for Judgment and Decision Making

Other Work Experience

1999-2007 Executive Director, Red Figure Foundation. A non-profit clearinghouse for open-source media content created by children in an informal educational setting.
1997-2003 Freelance Web Developer and Information Architect.
1995-1998 Freelance Writer and Literary Translator (Greek to English).
1994-1996 Marketing Copywriter, Oxford University Press.
1992-1994 Program Associate, Poetry Society of America.

Literary Publications & Awards

Voiklis, John (2004). Various Poems. In D. Yezzi (ed.) *The Zoo Anthology of Younger American Poets*. New York: Zoo Press.
Voiklis, John (1998). Three Cities. *Columbia: A Journal of Literature and Art*, 30: 37-38.
Voiklis, John (1998). Three Houses. *Columbia: A Journal of Literature and Art*, 30: 39-40.
Voiklis, John (1996). The Princeling's Apology. *Paris Review*, 139, Summer 1996. Winner of the 1996 Bernard F. Connors Prize for Poetry.
Voiklis, John (1996). Pascha. *Western Humanities Review*, L(1): 17.
Voiklis, John (1994). The New House. Unpublished Masters Thesis, Columbia University, NY.

References

James E. Corter (corter@exchange.tc.columbia.edu), Professor of Statistics and Education. Department of Human Development, Teachers College, Columbia University.
Manu Kapur (manu.kapur@nie.edu.sg), Associate Professor. Learning Sciences and Technology Academic Group and Learning Sciences Lab, National Institute of Education, Nanyang University Singapore.
Deanna Kuhn (dk100@columbia.edu), Professor of Psychology and Education. Department of Human Development, Teachers College, Columbia University.
Yasuaki Sakamoto (yasuaki.sakamoto@stevens.edu), Assistant Professor. Center for Decision Technologies. Howe School of Technology Management, Stevens Institute of Technology.