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Research Interests

Human Cooperation, Experimental Economics, Network Science, Econometrics, Empirical Methods in Social Sciences

Education

Department of Computational Social Science, George Mason University

Ph.D. Candidate, Computational Social Science (expected May 2014)

Dissertation Topic: Heterogeneous Preferences and the Dynamics of Cooperation in Networked Societies: A Dialogue Between Experimental and Computational Approaches

Dissertation Co-Chairs: Robert Axtell, Ragan Petrie

Committee Members: Daniel Houser, Qing Tian

Indian Institute of Information Technology and Management, Gwalior

M. Tech. in Information Technology, June 2008

Experience

George Mason University, Interdisciplinary Center for Economic Science, Graduate Research Assistant, August 2012 - present

George Mason University, Center for Social Complexity, Graduate Research Assistant, June 2010 - August 2012

George Mason University, Krasnow Institute for Advanced Study, Graduate Research Assistant, September 2009 - May 2010.

University of Genoa, Department of Computer Science, Graduate Research Assistant, February 2009 - June 2009.

Research

Conference Proceedings

Cotla, C. R. (2011). A memory-based account of the Spatial Prisoner's Dilemma. In L. Carlson, C. Holscher, & T. Shipley (Eds.), *Proceedings of the 33rd annual conference of the cognitive science society* (pp. 342 – 347). Austin, TX: Cognitive Science Society.

Cotla, C. R. (2011). Dynamics of cooperation in Spatial Prisoner's Dilemma of memory-based players. In S. Osinga, G. J. Hofstede, & T. Verwant (Eds.), *Emergent results of artificial economics, lecture notes in economics and mathematical systems* (pp. 191 – 200). Springer-Verlag.

Gulden, T. R., Cotla, C. R., Hailegiorgis, A., & Crooks, A. (2011). A generic vegetation growth sub-model in a large human/environment interaction model of East Africa. *Proceedings of Computational Social Science Society of America Annual Conference*, Santa Fe, NM.

Gulden, T. R., Harrison, J. F., Cotla, C. R., & Crooks, A. (2012). The climate for refugees: An integrated model of human/environment interaction and migration under stress. *Proceedings of 2nd International Conference on Cross-Cultural Decision Making*, San Francisco, CA.

Kennedy, W.G., Cotla, C. R., Gulden, T. R., Coletti, M., & Cioffi, C. (2012). Validation of a household model of societies in East Africa. *Proceedings of 2nd International Conference on Cross-Cultural Decision Making*, San Francisco, CA.

Kennedy, W.G., Cotla, C. R., Gulden, T. R., Coletti, M., & Cioffi, C. (2012). Towards validating a model of households and societies of East Africa. *Proceedings of 4th World Congress on Social Simulation (WCSS)*, Taipei, Taiwan.

Conference and Seminar Presentations

Empirical agent based models, network topology and public goods games: Does population structure promote cooperation? 2012 Regional Economic Science Association Conference, Tucson, AZ, November 2012.

Cooperation in Spatial Prisoner's Dilemma of memory-based players, Seminar Series at the Department of Computational Social Science, October 2011.

Dynamics of cooperation in Spatial Prisoner's Dilemma of memory-based players, 2011 Annual Conference of Artificial Economics, The Hauge, The Netherlands, September 2011.

A memory-based account of the Spatial Prisoner's Dilemma, 33rd annual conference of the cognitive science society, Boston, MA, June 2011.

Extended Professional Travel

Research visit to Center for Machine Learning and Soft Computing at DISI, University of Genoa, Italy, Spring 2009

Attended Summer School in Social Network Analysis at CASOS, Carnegie Mellon University, Pittsburgh, PA, Summer 2011

Professional Activities

Member, Economic Science Association, 2012–Present.

Member, Cognitive Science Society, 2011–Present.

Member, Computational Social Sciences of Americas, 2010–Present.

Honors, Awards, & Fellowships

Graduate Student Travel Fellowship to attend 2011 Artificial Economics conference in The Hauge, The Netherlands, September 2011

Graduate Fellowship from Ministry of Human Resource Development (MHRD), India, 2007–2008

Pratibha Scholarship (Undergraduate Fellowship) from the State Government of Andhra Pradesh, India, 2003–2007