

# Chenna Reddy Cotla

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## Employment

Researcher, Consumer Research, 2016 –  
JPMorgan Chase Institute, Washington D. C., USA.

Co Founder & Chief Technology Officer (CTO), 2015 –  
DataSplash  
<http://www.datasplash.com>

Research Scientist, Machine Learning Lab, 2009 – 2010  
Department of Computer and Information Science, University of Genoa, Genoa, Italy.

## Education

Ph.D., Computational Social Science, George Mason University University, 2016.

Dissertation Title: Social Preferences, Learning, and the Dynamics of Cooperation in Networked Societies:  
A Dialogue Between Experimental and Computational Approaches

Dissertation Committee: Robert Axtell (Co-Chair), Ragan Petrie (Co-Chair), Daniel Houser, Qing Tian

M.Tech., Information Technology, Indian Institute of Information Technology & Management, Gwalior, 2008.

B.Tech., Information Technology, Indian Institute of Information Technology & Management, Gwalior, 2006.

## Research Fields

Applied Econometrics, Experimental Economics, Data Science/Big Data, Agent-Based Computational Economics,  
Network Science

## Research

### *Journal Articles*

Armor, David, Chenna R. Cotla, & Thomas Stratmann. Forthcoming. Spurious Relationships from Aggregate Variables in Linear Regression Models, *Quality & Quantity*.

### *Working Papers*

“Understanding the risk preferences of the poor” with Marco Castillo, Ragan Petrie and Maximo Torero

“Stability of Social Preferences and Learning in Public Goods Games” with Ragan Petrie (Job Market Paper)

“Learning in Linear Public Goods Games: A Meta Analysis” (Under Review)

*Research in Progress*

"Econometric Analysis of Coauthorship and Citation Networks in Economics"

"Learning and Price Formation in Double Auctions With Cognitive Agents" with Omar Al-Ubaydli

*Peer-Reviewed Conference Proceedings*

Kennedy, W. G., Cotla, C. R., Gulden, T., Coletti, M., & Cioffi-Revilla, C. (2014). Towards Validating a Model of Households and Societies in East Africa. In *Advances in Computational Social Science* (pp. 315-328). Springer Japan.

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.

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.

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. Verwart (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.

**Conference and Seminar Presentations**

Department of Psychology, University of Pennsylvania, November 2015.

2015 Regional Economic Science Association Conference, Dallas, TX, October 2015.

2013 Regional Economic Science Association Conference, Santa Cruz, CA, November 2013.

2012 Regional Economic Science Association Conference, Tucson, AZ, November 2012.

33rd Annual Conference of the Cognitive Science Society, Boston, MA, June 2011.

**Honors, Awards, & Fellowships**

Summer School Fellowship, Israeli Institute for Advanced Studies, June 2015

Outstanding Graduate Student Achievement Award, George Mason University, May 2014

National Science Foundation (NSF) Doctoral Dissertation Improvement Grant (\$21,646), 2013-2015

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

## Technical Skills

Programming Languages: Java, Python, C++, R

Statistical/Machine Learning Softwares: R, MATLAB, STATA, StatXact

Data Base Systems: MySQL, PostgreSQL

Machine Learning/Big Data Skills: Classification, Regression, Clustering Methods, Ensemble Methods, Natural Language Processing (NLTK toolkit), Hadoop, Spark

Web Development Tools: HTML5, AngularJS, Javascript, D3, PHP

Other Tools: Git, Z-Tree, Agent-Based Modeling Software (MASON, NETLOGO), Network Analysis Toolkits (Gephi, NetworkX)

## References

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Professor of Computational Social Science  
George Mason University  
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Dr. Marco Castillo  
Professor of Economics  
Texas A&M University  
(979) 845-7351, marco.castillo@tamu.edu

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Professor of Economics  
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(703) 993-2317, tstratma@gmu.edu

Dr. David Armor  
Professor Emeritus of Public Policy  
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