Yunqi Xue

Ph.D Candidate in CS

CURRICULUM VITAE

www.xue-yunqi.com

Research Summary

Research Inspiration: Believe in altruism. Believe in the power of groups. Humans have theory of mind to reason, empathize, and help others.

Dissertation Summary: "In Search of Homo Sociologicus" - Develop mathematical models and simulations to study how people take bottom-up group actions efficiently through reasoning with higher order beliefs and taking strategic decisions.

Research Keywords: Game Theory, Epistemic Logic, Knowledge Representation, Social Networks, Social Reasoning, Decision Theory

Core Competence

Python, JavaScript, Mathematical Modelling, Simulation, Data Analysis, Network Analysis, XML, HTML, Prolog, Windows, Mac OS X, Linux

Education

The City University of New York, New York, US
Ph.D. in computer science, 2017 (expected)
Currently working with Adam Brandenburger (Stern Business School NYU) on Epistemic Game Theory and its application in AI
Activities as a visiting student at Stanford in 2015 - 2017:
- Research talks on influence in social networks at both philosophy and computer science departments.
- Book contribution: "Strategic Belief Updates through Influence in a Community", a special issue "Logic and Games" Journals of Studies in Logic, invited by Prof. Sir. Johan van Benthem

University of Amsterdam, Amsterdam, NL
M.Sc. in Logic, 2013
B.Sc. in Economics and Business, 2009

Awards, Scholarships & Honors

CUNY Graduate Center Doctoral Student Research Grant	2016
CUNY Graduate Center Conference Presentation Support Fund	2015

CUNY Graduate Center Enhanced Chancellor's Fellow   2010 - 2015
  A 5-year PhD fellowship of $125,000 for top 5% Ph.D. students
Plonie van der Haagen-Stichting Women Excellence Scholarship   2009
  A full-year scholarship that covers tuition and living cost, €12,000
Santa Fe Institute Young Talent Outreach Fellowship   2009
  A fully funded academic visit at "Dynamics & Quantitative Studies of Human Behavior and Institutions" research group
Santa Fe Institute Complex Systems Summer School Scholarship   2008
  5% award rate globally
The 8th SWR-Hendrik Muller Fellowship   2006
  An annual award from The Royal Dutch Academy of Science & Arts to 18 students nation-wide

Work in Progress

Yunqi Xue, Rohit Parikh and Fenrong Liu, "Balancing Individual and Network Belief in Strategic Decisions"
Yunqi Xue and Fenrong Liu, "Privacy Logic"
Yunqi Xue and Adam Brandenburger, "Defining Prosocial Behavior in AI"

Publications in Journals, Conferences and Workshops

Yunqi Xue, Rohit Parikh and Mihai Gociu, "Simulating Strategic Social Influence", The 28th Stony Brook International Conference on Game Theory, New York, US, July 2017.

Yunqi Xue, Rohit Parikh and Mihai Gociu, "Social Power in Different Network Structures", The Games, Networks and Social Epistemology Conference, April 2017.

Yunqi Xue and Rohit Parikh, "Strategic Influence in Different Social Structures", The 27th Stony Brook International Conference on Game Theory, New York, US, July 2016.

Yunqi Xue and Rohit Parikh, "Strategic Belief Updates through Influence in a Community", Studies in Logic 8, no. 4, 124–143, December 2015.

Rohit Parikh and **Yunqi Xue**, "Knowledge and Common Knowledge in the Era of Social Software", 11th International Conference on Technology, Knowledge and Society, University of California, Berkeley, US, February 2015.

Rohit Parikh and **Yunqi Xue**, "Expert Influence in a Community", 14th Asian Logic Conference, IIT Bombay, Mumbai, India, January 2015

Yunqi Xue, "Towards Closed-World Reasoning in Games–Ultimatum Game Revisited". ILLC Master Thesis, Universiteit van Amsterdam, 2013.

Yunqi Xue and Andreas Witzel, "Belief and Cooperation in Simple Information Structures", Palmyr VIII Paris-Amsterdam-Switzerland Logic meeting of Young Researchers on Formal Epistemology, Lausanne, Switzerland, May 2009

Yunqi Xue and Andreas Witzel, "Information Structures and Beliefs in Public Goods Games", the 10th Szklarska Poreba Workshop on Formal Learning, Poland, February 2009

Seminar Research Talks

"Rapid Knowledge Revision in a Community", the Seminar of Stanford Logic Group, Computer Science department, Stanford University, June 2015

"Expert Knowledge Influence in Social Networks", Topics in Logic and Agency Seminar, Philosophy department, Stanford University, May 2015

"Review of 'Ron was wrong, Whit was right.' - online security with RSA system.", Graduate Center Cryptography Student Seminar, CUNY, September 2012

"Closed World Reasoning", Knowledge Game and Belief Seminar, Graduate Center CUNY, April 2010

"Modern Logic and Economics 1 – Public Goods Game Revisited", Santa Fe Institute, July 2009

"Modern Logic and Economics 2 – Ultimatum Game Revisited", Santa Fe Institute, July 2009

Teaching Experience

As part of the Enhanced Chancellor Fellowship, functioned as an adjunct professor who gave all the lectures and labs, designed and graded all the homework, midterms and finals to 250+ students.

Fall & Spring 2013
Computing: Nature, Power and Limits
Applications of Computer Science

Spring 2012
Applications of Computer Science
Paradoxes and the Limits of Knowledge

Fall 2012
Theoretical Computer Science
Applications of Computer Science

Fall 2011
Applications of Computer Science
Computing: Nature, Power and Limits

Academic Service

Reviewer, the 10th International Symposium on Logical Formalization on Commonsense Reasoning 2011
Reviewer, Amsterdam Social Science, since 2009
Research Assistant, University of Amsterdam NWO Vidi grant, PI: Jeroen de Kloet, Aug. - Oct. 2009