

Catherine S. Moon

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EDUCATION

Duke University, Durham, North Carolina, USA

Ph.D. Candidate in Economics

Aug 2012 – Present

- Committee Members: Vincent Conitzer, Rachel Kranton, Curtis Taylor, David McAdams

B.S. and B.A. in Economics and Computer Science

Aug 2008 – May 2012

- Graduated with Honors and Highest Distinction in Economics
- Honors Thesis: Possibility of Cost Offset in Expanding Health Insurance Coverage: Using Medical Expenditure Panel Survey 2008 (2012 Allen Starling Johnson, Jr. Best Thesis Finalist)

RESEARCH AND TEACHING INTERESTS

Research

- Analysis of how to induce cooperation in some given situation
- Experiments and Statistical Methods • Computational Game Theory

Teaching

- Game theory • Microeconomic theory • Computational microeconomics • Computational game theory
- Strategy and organization • Experimental design • Social networks • Statistical and computational tools

GRANTS, SCHOLARSHIPS, AND AWARDS

- Program for Advanced Research in the Social Sciences (PARISS) Fellowship, 2017-2018
- Selected to participate in 2017 CRA-W Grad Cohort Workshop
- Computing Research Association-Women (CRA-W), Coalition to Diversify Computing (CDC), Artificial Intelligence Journal (AIJ) Travel Grant, 2016
- Artificial Intelligence Journal (AIJ) Travel Grant, 2015
- Duke Economics Department Fellowship, 2012
- 2012 Allen Starling Johnson, Jr. Best Thesis Finalist
- Sara Hall Brandaleone and Bruce Scholarship, Fall 2009–Spring 2012
- Duke Study-in-China Merit Scholarship, 2010

RESEARCH PAPERS

Publications in Refereed Conference Proceedings*

- “Role Assignment for Game-Theoretic Cooperation” (with Vincent Conitzer). In *Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence (IJCAI-16)*, pp. 416-423.
- “Maximal Cooperation in Repeated Games on Social Networks” (with Vincent Conitzer). In *Proceedings of the Twenty-Fourth International Joint Conference on Artificial Intelligence (IJCAI-15)*, pp. 216-223.

IJCAI is a rank A / rank 1 conference in computer science, specifically in artificial intelligence. In computer science, conferences are regarded more highly than journals, a characteristic specific to the field.

Works in Progress

- “Framing Matters: Sanctioning in Public Good Games via Parallel Bilateral Relationships” (Job Market Paper; with Vincent Conitzer)
- “Sample or Replace: Review Submission for Community Building”
- “Understanding and Separating Overcrowding in Team Project Execution”
- “The Fine Line between Functional and Dysfunctional Societies: Maximal Cooperation in Repeated Games on Social Networks” (with Vincent Conitzer)

PRESENTATIONS

Invited Talks

- INFORMS Annual Meeting, Philadelphia, PA, USA, 2015. Cluster: Optimization/Linear and Conic Optimization; Session: Efficient Algorithms for Large-Scale Convex Games.

Refereed Talks

- GAMES 2016 - Fifth World Congress of the Game Theory Society, Maastricht, the Netherlands
- The first IJCAI workshop on Algorithmic Game Theory (AGT@IJCAI-2015)
- AAAI 2015 Spring Symposium Series on Applied Computational Game Theory

RESEARCH EXPERIENCE

Research Assistant to Professor Vincent Conitzer

Jun 2013 – Present

Research Assistant to Professor Rachel Kranton

Aug 2015 – May 2016

TEACHING EXPERIENCE

Connection Bar Consultant, Social Science Research Institute, Duke University Fall 2017 – Present

- Research Fundamentals; Research Design; Research Ethics; Reporting Results; Data Collection; Existing Data Sources; Survey Design, Construction & Implementation; Statistical Packages; Data Analysis; Qualitative Research; Programming

Korean Language Tutor

May 2015 – Present

- Elementary Korean and Intermediate Korean, Duke University

Guest Lecturer, Computer Science Department, Duke University

Spring 2016, 2017

- Introduction to Artificial Intelligence
- Computation, Information, and Learning in Market Design

Teaching Assistant, Economics Department, Duke University

Fall 2010 – Spring 2012

- Intermediate Microeconomics I
- Intermediate Microeconomics II

Teaching Assistant, Computer Science Department, Duke University

Spring 2009 – Spring 2010

- Computing with Data
- Computer Science Principles
- Animation and 3D Virtual Worlds Programming

Taekwondo Instructor

1999 – 2008, 2014

- White Tiger Taekwondo & Martial Arts, USA; Myung-Seong and Kyung-Hee Taekwondo, South Korea

LANGUAGES

Programming

C, C++, CPLEX Optimization Studio, GAUSS, GNU Linear Programming Kit, Java, Matlab, MIPS Architecture and Assembly Language, Python, R, Stata

Foreign

Korean (native), Chinese (fluent), Spanish (basic), German (basic)

REFEREEING SERVICE

AAAI 2015 Spring Symposium Series

MEMBERSHIPS

Association for the Advancement of Artificial Intelligence (AAAI), Association for Computing Machinery (ACM), American Economic Association (AEA), Game Theory Society (GTS), Institute for Operations Research and the Management Sciences (INFORMS), Korea Taekwondo Association (KTA)

INTERESTS

Martial arts (4th degree black belt), visual arts, dancing, camping, traveling, learning languages

REFERENCES

Dr. Vincent Conitzer

Dissertation Chair

Kimberly J. Jenkins University Professor of New Technologies Professor of Computer Science, Professor of Economics, and Professor of Philosophy, Duke University

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