Georgios Piliouras

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EDUCATION

2010 Cornell University

PhD in Computer Science

Advisor: Eva Tardos

2008 Cornell University

Master of Science in Computer Science

2005 National University of Athens, Greece

Master of Science in Mathematical Logic and Computation

2004 National Technical University of Athens, Greece

Diploma of Electrical Engineering and Computer Science (highest honors)

RESEARCH FOCUS

Algorithmic Game Theory, Multi-Agent Learning, Algorithms, Network Science

ACADEMIC/RESEARCH POSITIONS

2010 - Present Georgia Institute of Technology

Research Scientist

2008 (Jun-Aug) C.W.I. Center for Mathematics and Computer Science, Netherlands

Intern/Researcher

TEACHING EXPERIENCE

Spring 2013	GaTech Graduate Course ``Advanced Topics in Algorithmic Game Theory''
Spring 2012	GaTech Graduate Course ``Discrete Fourier Analysis and Applications"
Spring 2010	Co-designed Cornell Course ``Topics in Computational Sustainability"

ACADEMIC SERVICE

Program ACM Conference on Electronic Commerce (EC) 2011, 2012, 2013

Committees Workshop Conference on Internet & Network Economics (WINE) 2013

Workshop on Complex Networks (CompleNet) 2013, 2014

Referee Conferences & journals in theoretical computer science, control theory, and

complex systems, e.g, STOC, FOCS, SODA, EC, WINE, SAGT, ICALP, ESA,

PODC, CDC, ACC, COMPLENET, Algorithmica, IEEE Transactions on

Automatic Control, Distributed Computing a.o.

RESEARCH

Working Papers

Read me First: An Introduction to the Theory of Attention Markets

w. Maria-Florina Balcan, Steven Ehrlich and Jeff S. Shamma

A bottom-up approach on the emergence of self-organization in societal systems

w. Ibrahim Al-Shyouk and Jeff S. Shamma

In submission

Persistent Patterns: Multi-Agent Learning beyond Equilibrium and Utility

w. Henrik I. Christensen, Carlos Nieto-Granda & Jeff S. Shamma

Algorithmic Pattern Design: Long-Range Correlations via Poly-time Computable Local Rules

Near Optimality in Covering and Packing Games by Exposing Global Information

w. Maria-Florina Balcan, Sara Krehbiel and Jinwoo Shin (submitted for journal publication, 2012)

LP-based covering games with Low Price of Anarchy

w. Tomas Valla and Laszlo A. Vegh(submitted for journal publication, February 2013)

Game Couplings: Learning Dynamics and Applications

w. Maria-Florina Balcan, Florin Constantin, Jeff S. Shamma (submitted for journal publication, August 2013)

Published/To Appear

Optimization despite Chaos:

Convex Relaxations to Complex Limit Sets via Poincare Recurrence

w. Jeff S. Shamma

ACM-SIAM Symposium on Discrete Algorithms (SODA), 2014 (To Appear).

Risk Sensitivity of Price of Anarchy under Uncertainty

w. Evdokia Nikolova and Jeff S. Shamma

ACM Conference on Electronic Commerce (EC), 2013.

LP-based covering games with low Price of Anarchy

w. Tomas Valla and Laszlo A. Vegh

Workshop on Internet & Network Economics (WINE), 2012.

Near Optimality in Covering and Packing Games by Exposing Global Information

w. Maria-Florina Balcan, Sara Krehbiel and Jinwoo Shin

IEEE Conference on Decision and Control (CDC), 2012.

Medium and Long-Run Properties of Linguistic Community Evolution

w. Michael J. Fox and Jeff S. Shamma

International Conference on the Evolution of Language (Evolang IX), 2012.

Load Balancing Without Regret in the Bulletin Board Model

w. Eva Tardos and Robert Kleinberg

Distributed Computing Journal 24, 2011.

Game Couplings: Learning Dynamics and Applications

w. Maria-Florina Balcan, Florin Constantin, Jeff S. Shamma

IEEE Conference on Decision and Control & European Control Conference (CDC-ECC), 2011.

Beating the Best Nash without Regret

w. Katrina Ligett SIGecom Exchanges 10(1), 2011.

Beyond the Nash Equilibrium Barrier

w. Robert Kleinberg, Katrina Ligett and Eva Tardos Symposium on Innovations in Computer Science (ICS), 2011.

Dynamic Coalition Formation and Price of Anarchy in Cournot Oligopolies

w. Nicole Immorlica and Vangelis MarkakisWorkshop on Internet, Network and Economics (WINE), 2010.

No-Regret Learning in Oligopolies: Bertrand vs Cournot

w. Uri Nadav

Symposium on Algorithmic Game Theory (SAGT), 2010.

Load Balancing Without Regret in the Bulletin Board Model

w. Eva Tardos and Robert KleinbergSymposium on Principles of Distributed Computing (PODC), 2009.

Multiplicative Updates Outperform Generic No-Regret Learning in Congestion Games

w. Eva Tardos and Robert Kleinberg

Symposium on Theory of Computing (STOC), 2009.

SELECTED TALKS

2013	Office of Naval Research, Arlington Virginia / ACM Conference on Electronic Commerce (EC) / GaTech Theory Seminar
2012	GaTech CS Theory Seminar / Northwestern University Theory Seminar / Texas A&M Theory Seminar / Summer School in Game Theory (Samos, Greece) / University of Maryland / GaTech Aerospace Engineering Seminar
2011	IEEE Conference on Decision and Control and European Control Conference / GaTech, Department of ECE / International Conference on Game Theory (Stonybrook) / Oxford University, Department of Economics / Physical Intelligence DARPA-UCLA / GaTech, Department of CS /

	Symposium on Innovations in Computer Science (ICS)
2010	Workshop on Internet, Network and Economics (WINE) / Physical Intelligence DARPA- SRI / Symposium on Algorithmic Game Theory (SAGT) / Thesis Defense Cornell
2009	2 nd Eastern Great Lakes Theory Workshop / Symposium on Principles of Distributed Computing (PODC) / Symposium on Theory of Computing

THESES

2010	A Learning Theoretic Approach to Algorithmic Game Theory PhD Thesis Cornell
2005	Information Networks and Game Theory Master Thesis, U.O.A.
2004	Game Theory and Complexity Thesis, N.T.U.A.

DISTINCTIONS

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2008

2005 Olin Fellowship (Cornell)

2000 – 2005 Fellowships by National Fellowship Foundation (I.E.K.)

(STOC) / Cornell Theory Seminar

& National Society of Engineers (T.E.E.)

2002 Research Fellowship by I.L.S.P

Awards / Achievements

2005 Award for top academic performance in C.S. and Logic Program

Outstanding Teaching Assistant Award

2000 – 2005 Several distinctions as best 1% of the E.E./C.S. Dept

2004 1st place in national robotics competition

1999 Honorary admission to the Electrical Engineering and Computer Science

Dept of N.T.U.A as international mathematics champion

1994 – 1999 Several medals in national & international mathematics competitions

REFEREES

Advisors/ Committee Eva Tardos, eva@cs.cornell.edu

Members Jeff S. Shamma, shamma@gatech.edu

Robert Kleinberg, rdk@cs.cornell.edu

Co-Authors Nina Balcan, ninamf@cc.gatech.edu

Evdokia Nikolova, nikolova@tamu.edu

DARPA ``Physical Yong Chen, yongchen@seas.ucla.edu

Intelligence" Project Richard Rohwer richard.rohwer@sri.com