

Vasilis Gkatzelis

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Employment History

- **Drexel University**, Computer Science - Assistant Professor (June 2016 - present)
- **UC Berkeley**, EECS & ICSI - Postdoctoral Scholar (Jan. 2016 - May 2016)
- **UC Berkeley**, Simons Institute - Research Fellow (Aug. 2015 - Dec. 2015)
- **Stanford University**, Computer Science - Postdoctoral Scholar (2013 - 2015)
- **Google**, New York - Engineering Intern (September 2012 - December 2012)
- **Hewlett Packard Labs**, Palo Alto - Research Intern (May 2012 - August 2012)
- **Microsoft Research**, Mountain View - Research Intern (May 2011 - August 2011)

Education

- New York University, Courant Institute of Mathematical Sciences
Ph.D. in Computer Science (2008 - 2013)
- New York University, Courant Institute of Mathematical Sciences
M.Sc. in Computer Science (2010)
- University of Patras, Computer Engineering and Informatics Department
Diploma (2002 - 2007)

Research Interests

Algorithmic Mechanism Design, Multiagent Resource Allocation, Approximation Algorithms

Journal Publications

- “Optimal Cost-Sharing in General Resource Selection Games”
V. Gkatzelis, K. Kollias, and T. Roughgarden
Operations Research
- “The Performance of Deferred-Acceptance Auctions”
P. Dütting, V. Gkatzelis, and T. Roughgarden
Mathematics of Operations Research
- “Pricing Private Data”
V. Gkatzelis, C. Aperjis, and B.A. Huberman
(invited to special issue on Markets for Personal Data)
Electronic Markets - Int. Journal on Networked Business
- “Decentralized Utilitarian Mechanisms for Scheduling Games”
R. Cole, J.R. Correa, V. Gkatzelis, V. Mirrokni, and N. Olver
(invited to special issue featuring selected STOC/FOCS/SODA 2011 papers)
Games and Economic Behavior

- “The Impact of Social Ignorance on Weighted Congestion Games”
D. Fotakis, V. Gkatzelis, A. Kaporis, and P. Spirakis
Theory of Computing Systems

Conference Publications

- “Coordination Mechanisms, Cost-Sharing, and Approximation Algorithms for Scheduling”
I. Caragiannis, V. Gkatzelis, and C. Vinci
13th International Conference on Web and Internet Economics
WINE 2017 (https://link.springer.com/chapter/10.1007%2F978-3-319-71924-5_6)
- “Deferred-Acceptance Auctions for Multiple Levels of Service”
V. Gkatzelis, E. Markakis, and T. Roughgarden
18th ACM Conference on Economics and Computation
EC 2017 (<https://dl.acm.org/citation.cfm?doid=3033274.3085142>)
- “Cost-Sharing Methods for Scheduling Games under Uncertainty”
G. Christodoulou, V. Gkatzelis, and A. Sgouritsa
18th ACM Conference on Economics and Computation
EC 2017 (<https://dl.acm.org/citation.cfm?doid=3033274.3085151>)
- “Convex Program Duality, Fisher Markets, and Nash Social Welfare”
R. Cole, N.R. Devanur, V. Gkatzelis, K. Jain, T. Mai, V.V. Vazirani, and S. Yazdanbod
18th ACM Conference on Economics and Computation
EC 2017 (<https://dl.acm.org/citation.cfm?doid=3033274.3085109>)
- “Nash Social Welfare Approximation for Strategic Agents”
S. Branzei, V. Gkatzelis, and R. Mehta
18th ACM Conference on Economics and Computation
EC 2017 (<https://dl.acm.org/citation.cfm?doid=3033274.3085143>)
- “Participation Incentives on a Wireless Random Access Erasure Collision Channel”
V. Gkatzelis and S. Weber
12th Workshop on the Economics of Networks, Systems and Computation
NetEcon 2017 (<https://dl.acm.org/citation.cfm?doid=3106723.3106726>)
- “Approximating the Nash Social Welfare with Indivisible Items”
R. Cole and V. Gkatzelis
47th ACM Symposium on Theory of Computing
STOC 2015 (<http://dl.acm.org/citation.cfm?doid=2746539.2746589>)
- “Optimal Cost-Sharing in Weighted Congestion Games”
V. Gkatzelis, K. Kollias, and T. Roughgarden
10th Conference on Web and Internet Economics
WINE 2014 (http://dx.doi.org/10.1007/978-3-319-13129-0_6)
- “The Performance of Deferred-Acceptance Auctions”
P. Dütting, V. Gkatzelis, and T. Roughgarden
15th ACM Conference on Economics and Computation
EC 2014 (<http://dl.acm.org/citation.cfm?doid=2600057.2602861>)
- “Mechanism Design for Fair Division”
R. Cole, V. Gkatzelis, and G. Goel
14th ACM Conference on Electronic Commerce
EC 2013 (<http://dl.acm.org/citation.cfm?id=2482582>)

- “Positive Results for Mechanism Design without Money”
R. Cole, V. Gkatzelis, and G. Goel
12th International Conference on Autonomous Agents and Multiagent Systems
AAMAS 2013 (<http://dl.acm.org/citation.cfm?id=2485123>)
- “Inner Product Spaces for MinSum Coordination Mechanisms”
R. Cole, J.R. Correa, V. Gkatzelis, V. Mirrokni, and N. Olver
43rd ACM Symposium on Theory of Computing
STOC 2011 (<http://portal.acm.org/citation.cfm?id=1993708>)
- “The Impact of Social Ignorance on Weighted Congestion Games”
D. Fotakis, V. Gkatzelis, A. Kaporis, and P. Spirakis
5th International Workshop on Internet and Network Economics
WINE 2009 (<http://www.springerlink.com/content/nt13779752r63331/>)

Scholarships and Awards

- “**Janet Fabri Prize**” *for the department’s most outstanding dissertation*
by the Courant Institute of Mathematical Sciences (2014)
- “**Dean’s Dissertation Fellowship**” *for selected students writing their dissertation*
by the NYU Graduate School of Arts & Science (2012-2013)
- “**Henning Biermann Award**” *for outstanding contributions to education*
by the Courant Institute of Mathematical Sciences (2011)
- “**Andreas Mentzelopoulos Scholarship**” (supplemental financial support)
by the University of Patras (2008-2010)

Teaching

- CS457 “Data Structures and Algorithms I” (Fall 2016, Fall 2017)
- CST680 “Economics and Computation” (Spring 2017)

Service for Conferences and Journals

- **Chair:**
 - Poster session chair at 12th Conference on Web and Internet Economics (WINE 2016)
 - Session chair at 22nd International Symposium on Mathematical Programming (ISMP 2015)
- **Program Committees:**
 - 11th International Symposium on Algorithmic Game Theory (SAGT 2018)
 - 32nd Conference on Artificial Intelligence (AAAI 2018)
 - 13th Conference on Web and Internet Economics (WINE 2017)
 - 18th ACM Conference on Economics & Computation (EC 2017)
 - 26th Int. Joint Conference on Artificial Intelligence (IJCAI 2017)
 - 16th Int. Conf. on Autonomous Agents & Multiagent Systems (AAMAS 2017)

- 26th International World Wide Web Conference (WWW 2017)
- 12th Conference on Web and Internet Economics (WINE 2016)
- 17th ACM Conference on Economics & Computation (EC 2016)
- AGT Workshop at Int. Joint Conference on AI (AGT@IJCAI 2016)
- 25th Int. Joint Conference on Artificial Intelligence (IJCAI 2016)
- 11th Conference on Web and Internet Economics (WINE 2015)
- 16th ACM Conference on Economics & Computation (EC 2015)
- AGT Workshop at Int. Joint Conference on AI (AGT@IJCAI 2015)
- 10th Conference on Web and Internet Economics (WINE 2014)
- **Journal Reviewer:** SIAM Journal on Computing, Operations Research, Mathematics of Operations Research, Games and Economic Behavior, Journal of Economic Theory, Algorithmica, Discrete Optimization, Transactions on Economics and Computation, Theory of Computing Systems, Information Processing Letters, Journal of Machine Learning, Mathematical Social Sciences, Information and Computation, IEEE Transactions on Parallel and Distributed Systems, Mathematical Methods of Operations Research
- **Conference Reviewer:** ACM Symposium on Theory of Computing, ACM Conference on Economics & Computation, ACM-SIAM Symposium on Discrete Algorithms, International Colloquium on Automata, Languages, and Programming, Conference on Web and Internet Economics, European Symposium on Algorithms, International Symposium on Algorithmic Game Theory, Symposium on Theoretical Aspects of Computer Science, International Conference on Algorithms and Complexity, Latin American Theoretical Informatics Symposium, ACM Symposium on Parallelism in Algorithms and Architectures

Talks and Presentations

- “Deferred-Acceptance Auctions for Multiple Levels of Service”
 - Cornell Theory Seminar - 18 September 2017 - Ithaca (**Cornell University**)
 - 18th ACM Conference on Economics and Computation - 28 June 2017 - Boston (**EC 2017**)
 - Brown Theory Seminar - 30 May 2017 - Providence (**Brown University**)
 - UPenn CS theory lunch - 9 September 2016 - Philadelphia (**University of Pennsylvania**)
 - Workshop on Complex Auctions - 10 July 2016 - Stony Brook (**Center for Game Theory**)
 - UW CS Theory Seminar - 19 April 2016 - Seattle (**University of Washington**)
- “Approximating the Nash Social Welfare with Indivisible Items”
 - Theory Group Seminar - 20 April 2016 - Redmond (**Microsoft Research**)
 - DIMACS TCS seminar - 4 November 2015 - Piscataway (**Rutgers University**)
 - UPenn Computer Science - 3 November 2015 - Philadelphia (**University of Pennsylvania**)
 - Algorithms Seminar - 21 July 2015 - Mountain View (**Google Research**)
 - IBM Theory Group Seminar - 20 July 2015 - Almaden (**IBM Almaden**)
 - 47rd ACM Symposium on Theory of Computing - 16 June 2015 - Portland (**STOC 2015**)
 - MSR AGT Seminar - 15 May 2015 - Cambridge (**Microsoft Research**)
 - Theory Lunch Seminar - 18 February 2015 - Berkeley (**Berkeley University**)

- “The Performance of Deferred-Acceptance Auctions”
 - Combinatorial Auctions session - 1 November 2015 - Philadelphia (**INFORMS 2015**)
 - 9th Athens Colloq. on Algorithms and Complexity - 21 August 2014 - Athens (**ACAC 2014**)
 - Economic and Algorithmic Theory Week - 22 July 2014 - Paros (**GREAT 2014**)
 - 15th ACM Conference on Economics and Computation - 10 June 2014 - Palo Alto (**EC 2014**)
- “Mechanism Design for Fair Division”
 - Quantitative Economics Department - 16 January 2015 - Maastricht (**Maastricht University**)
 - Networks & Optimization Seminar - 12 January 2015 - Amsterdam (**CWI**)
 - 5th Int. Workshop on Comp. Social Choice - 23 June 2014 - Pittsburgh (**COMSOC 2014**)
 - Economics Department Theory Lunch - 3 March 2014 - Stanford (**Stanford University**)
 - EconCS Seminar - 12 November 2013 - Berkeley (**Berkeley University**)
 - EECS Theory Seminar - 7 October 2013 - Evanston (**Northwestern University**)
 - 14th ACM Conference on Electronic Commerce - 20 June 2013 - Philadelphia (**EC 2013**)
 - AGT discussion group - 28 April 2013 - Ithaca (**Cornell University**)
 - Microsoft Research Lunch Talk - 12 March 2013 - NY (**Microsoft Research**)
 - CMU Theory Lunch - 20 February 2013 - Pittsburgh (**Carnegie Mellon University**)
 - EconCS Group Seminar - 14 February 2013 - Boston (**Harvard University**)
 - Market Algorithms and Optimization group - 20 November 2012 - NY (**Google Research**)
 - 5th New York Colloq. on Algorithms and Complexity - 16 November 2012 - NY (**NYCAC**)
 - 21st Int. Symposium on Mathematical Programming - 23 August 2012 - Berlin (**ISMP 2012**)
- “Pricing Private Data”
 - 5th New York Computer Science and Economics Day - 3 December 2012 - NY (**NYCE 2012**)
- “Decentralized Welfare-Optimizing Mechanisms for Scheduling Games”
 - Theory Lunch Seminar - 7 November 2013 - Stanford (**Stanford University**)
 - Lecture Series in Economics - 21 December 2011 - Maastricht (**Maastricht University**)
 - RWTH Aachen University Seminar - 20 December 2011 - Aachen (**Aachen University**)
 - Algorithms Group - 25 October 2011 - Glasgow (**Glasgow University**)
- “Inner Product Spaces for MinSum Coordination Mechanisms”
 - Yahoo! Research - 15 August 2011 - Santa Clara (**Yahoo! Research**)
 - Microsoft Research Theory Seminar - 8 August 2011 - Mountain View (**Microsoft Research**)
 - Economic and Algorithmic Theory Week - 25 July 2011 - Paros (**GREAT 2011**)
 - 43rd ACM Symposium on Theory of Computing, - 8 June 2011 - San Jose (**STOC 2011**)
 - Market Algorithms and Optimization group - 1 March 2011 - NY (**Google Research**)
 - 3rd New York Computer Science and Economics Day - 15 October 2010 - NY (**NYCE 2010**)
 - 5th Athens Colloq. on Algorithms and Complexity - 27 August 2010 - Athens (**ACAC 2010**)
- “The Impact of Social Ignorance on Weighted Congestion Games”
 - 5th Int. Workshop on Internet and Network Econ. - 16 December 2009 - Rome (**WINE 2009**)