Computer Science Columbia University kgoldner@cs.columbia.edu

Kira Goldner

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500 West 120th St, Room 450 New York, NY 10027 Cell: 610-324-3931

APPOINTMENTS:

Columbia University, New York, NY

NSF Mathematical Sciences Postdoctoral Research Fellow

Data Science Institute Postdoctoral Fellow

Host: Tim Roughgarden

The Simons Institute, Berkeley, CA

Aug. 2019 – Oct. 2019

July 2019 - Present

Research Fellow

Program: Online and Matching-Based Market Design

EDUCATION:

University of Washington, Seattle, WA

2014 - 2019

Ph.D. in Computer Science and Engineering

Dissertation: Mechanism Design for a Complex World: Rethinking Standard Assumptions

Advisor: Anna Karlin

Masters in Computer Science and Engineering 2016

Advisor: Anna Karlin

Oberlin College, Oberlin, OH

2010 - 2014

Bachelor of Arts: Mathematics Major, Computer Science Minor

Budapest Semesters in Mathematics, Budapest, Hungary

Fall 2013

Honors, Study Abroad

RESEARCH INTERESTS:

My interests lie in algorithmic mechanism design and approximation, in particular, in (1) mechanism design for social good, e.g. within health insurance and online labor markets, (2) maximizing revenue in settings that are motivated by practice, and (3) relaxing traditional assumptions (e.g. known priors or risk-neutrality).

AWARDS, SCHOLARSHIPS, AND DISTINCTIONS:

NSF Mathematical Sciences Postdoctoral Research Fellowship	2019
Columbia Data Science Institute Postdoctoral Fellowship	
Microsoft Research PhD Fellowship	2017
Facebook Fellowship Finalist	
UW Society for Women Engineers Evening with Industry Outstanding Female Award	
Google Anita Borg Memorial Scholarship	2016
NSF Graduate Research Fellowship Program: Honorable Mention	
National Defense in Science and Engineering Fellowship: Alternate Selectee	
NSF Graduate Research Fellowship Program: Honorable Mention	2015
Phi Beta Kappa	2014
NSF S-STEM Scholar in Computation and Modeling at Oberlin College	2012
John F. Oberlin merit scholarship for \$25,000 annually for four years (top level awarded)	2010

PUBLICATIONS:

Combinatorial Auctions with Interdependent Valuations: SOS to the Rescue, with Alon Eden, Michal Feldman, Amos Fiat, and Anna R. Karlin. In *Proceedings of the 20th ACM Conference on Economics and Computation* (EC 2019).

Best Paper with a Student Lead Author.

Simple and Approximately Optimal Pricing for Proportional Complementarities, with Yang Cai, Nikhil R. Devanur, and R. Preston McAfee. In *Proceedings of the 20th ACM Conference on Economics and Computation* (EC 2019).

When to Limit Entry Under Mandatory Purchase, with Meryem Essaidi and S. Matthew. In the 3rd Workshop on Mechanism Design for Social Good (MD4SG 2019).

Mechanism Design for Social Good, with Rediet Abebe. In ACM SIGAI AI Matters, 4.3, October 2018.

Interdependent Values without Single-Crossing, with Alon Eden, Michal Feldman, and Amos Fiat. In Proceedings of the 19th ACM Conference on Economics and Computation (EC 2018).

Revenue Maximization with an Uncertainty-Averse Buyer, with Shuchi Chawla, J. Benjamin Miller, and Emmanouil Pountourakis. In *Proceedings of the 29th ACM-SIAM Symposium on Discrete Algorithms* (SODA 2018).

A Report on the Workshop on Mechanism Design for Social Good, with Rediet Abebe. In *ACM SIGecom Exchanges*, 16.2, June 2018.

A Prior-Independent Revenue-Maximizing Auction for Multiple Additive Bidders, with Anna Karlin. In Proceedings of the 12th Conference on Web and Internet Economics (WINE 2016).

The FedEx Problem, with Amos Fiat, Anna Karlin, and Elias Koutsoupias. In *Proceedings of the 17th ACM Conference on Economics and Computation* (EC 2016).

Minimal Partial Languages and Automata, with F. Blanchet-Sadri and Aidan Shackleton. In *Proceedings of the* 19th International Conference on Implementation and Applications of Automata (CIAA 2014).

Different Optimal Solutions in Shared Path Graphs, with Sean McCulloch. In *Proceedings of the 2012 Midstates Conference for Undergraduate Research in Computer Science and Mathematics* (MCURCSM 2012).

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WORKSHOP, TUTORIAL, AND RESEARCH GROUP ORGANIZATION:	
Tutorial on the Menu Size of Precise and Approximate Revenue-Maximizing Auctions Organizer and Presenter, with Yannai A. Gonczarowski at ACM-EC, Ithaca, NY	June 2018
The 2 nd Workshop on Mechanism Design for Social Good Organizer and PC Chair, with Rediet Abebe at ACM-EC, Ithaca, NY	June 2018
Tutorial on Mechanism Design for Social Good Organizer and Presenter, at WINE, Bangalore, India	Dec. 2017
The 1 st Workshop on Mechanism Design for Social Good Organizer and PC Chair, with Rediet Abebe at ACM-EC, Cambridge, MA	June 2017

2016-2019

The Mechanism Design for Social Good research group and colloquium series

Visitor, Microsoft Research Herzliyah, hosted by Moshe Babaioff Dec. 2018 – Jan. 2019 Research Intern, Microsoft Research New England, hosted by Brendan Lucier Visitor, Tel Aviv University, hosted by Michal Feldman and Amos Fiat Nov. 2017 – Mar. 2018 Visitor, Princeton University, hosted by Michal Feldman and Amos Fiat Nov. 2017 – Mar. 2018 Research Intern, Microsoft Research Redmond, hosted by Nikhil Devanur Summer 2017 Visitor, Tel Aviv University, bosted by Michal Feldman and Amos Fiat Jan. – Feb. 2017 Visitor, Tel Aviv University, bosted by Michal Feldman and Amos Fiat Jan. – Feb. 2017 Visitor, The Simons Institute, hosted by the Algorithms & Uncertainty Semester Aug. – Sept. 2016 Visitor, The Simons Institute, hosted by the Economics & Computation Semester Fall 2015 Undergraduate Research Assistant, UNC Greensboro NSF REU, hosted by Francine Blanchet-Sadri Summer 2012 Undergraduate Research Assistant, Ohio Wesleyan NSF REU, hosted by Francine Blanchet-Sadri Summer 2012 INVITED WORKSHOPS: Workshop on Algorithms for Learning and Economics, Rhodes, Greece Plenary Speaker at Data Science for Social Good Workshop, Georgia Tech, Atlanta, GA Apr. 2018 Northwestern Quarterly Theory Workshop, Evanston, IL Bellairs Workshop on Algorithmic Game Theory, Holetown, Barbados Apr. 2018 Greece Economic and Algorithmic Theory Week, Ikaria, Greece July 2017 Young Researcher Workshop on Economics and Computation, Tel Aviv University, Israel Women in Theory Workshop, Berkeley, CA INVITED TALKS: Reducing Inefficiency in Carbon Auctions with Large Firms Marketplace Innovation Workshop, Palo Alto, CA Apr. 2015 INVITED TALKS: Reducing Inefficiency in Carbon Auctions with Large Firms Marketplace Innovation Workshop, Palo Alto, CA Apr. 2019 Simple and Approximately Optimal Pricing for Proportional Complementarities Minisymposium on Algorithmic Game Theory at CANADAM, Vancouver, BC, Canada May 2019 INFORMS Annual Meeting, Phoenix, AZ Nov. 2018 Interdimensional Mechanism Design for Single-Min	RESEARCH INTERNSHIPS AND LONG-TERM VISITS:	
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CRA-W Grad Cohort Conference, San Francisco, CA Apr. 2015 INVITED TALKS: Reducing Inefficiency in Carbon Auctions with Large Firms Marketplace Innovation Workshop, Palo Alto, CA Data Science for Social Good Workshop, Atlanta, GA Simple and Approximately Optimal Pricing for Proportional Complementarities Minisymposium on Algorithmic Game Theory at CANADAM, Vancouver, BC, Canada Hebrew University of Jerusalem Computation and Economics Seminar, Jerusalem, Israel INFORMS Annual Meeting, Phoenix, AZ Nov. 2018 Interdimensional Mechanism Design Northwestern Quarterly Theory Workshop, Evanston, IL UW Allen School Colloquium, Seattle, WA AmosFest, Tel Aviv, Israel Nov. 2017 Optimal Mechanism Design for Single-Minded Agents INFORMS Annual Meeting, Phoenix, AZ Nov. 2018 Georgia Tech ACO Student Seminar, Atlanta, GA	Young Researcher Workshop on Economics and Computation, Tel Aviv University, Israel	Jan. 2017
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Marketplace Innovation Workshop, Palo Alto, CA Data Science for Social Good Workshop, Atlanta, GA Apr. 2019 Simple and Approximately Optimal Pricing for Proportional Complementarities Minisymposium on Algorithmic Game Theory at CANADAM, Vancouver, BC, Canada Hebrew University of Jerusalem Computation and Economics Seminar, Jerusalem, Israel INFORMS Annual Meeting, Phoenix, AZ Nov. 2018 Interdimensional Mechanism Design Northwestern Quarterly Theory Workshop, Evanston, IL UW Allen School Colloquium, Seattle, WA AmosFest, Tel Aviv, Israel Nov. 2017 Optimal Mechanism Design for Single-Minded Agents INFORMS Annual Meeting, Phoenix, AZ Georgia Tech ACO Student Seminar, Atlanta, GA Apr. 2018	INVITED TALKS:	
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Georgia Tech ACO Student Seminar, Atlanta, GA Apr. 2018		3 7 0000

Hebrew University of Jerusalem Computation and Economics Seminar, Jerusalem, Israel Tel Aviv University Algorithms Seminar, Tel Aviv, Israel	Jan. 2018 Dec. 2017
Interdependent Values without Single-Crossing	
Bellairs Workshop on Algorithmic Game Theory, Barbados	Apr. 2018
The FedEx Problem	
Princeton Mechanism Design Reading Group, Princeton, NJ	Oct. 2017
Conference of the International Federation of Operational Research Societies, Quebec, Canada	July 2017
STOC Workshop on Bayesian Mechanism Design, Montreal, Canada	June 2017
Hebrew University of Jerusalem Lo Letzitot Seminar, Jerusalem, Israel	Jan. 2017
Weizmann Institute Foundations of Computer Science Seminar, Rehovot, Israel	Jan. 2017
Young Researcher Workshop on Economics and Computation, Tel Aviv, Israel	Jan. 2017 Nov. 2016
UW-Madison Theory Seminar, Madison, WI	Oct. 2016
Microsoft Research Theory Seminar, Redmond, WA UC Berkeley Theory Lunch, Berkeley, CA	Sept. 2016
Stanford University Theory Lunch, Palo Alto, CA	Sept. 2016 Sept. 2016
ACM Conference on Economics and Computation, Maastricht, Netherlands	July 2016
Google Scholar's Retreat, Mountain View, CA	June 2016
UW Theory Seminar, Seattle, WA	May 2016
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Revenue Maximization with an Uncertainty-Averse Buyer	
Microsoft Research Theory Lunch, Redmond, WA	Sept. 2017
UW Theory Lunch, Seattle, WA	May 2017
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A Prior-Independent Revenue-Maximizing Auction for Multiple Additive Bidders	
Conference on Web and Internet Economics, Montreal, Canada	Dec. 2016
UW Theory Seminar, Seattle, WA	Jan. 2016
Incentives and the Bitcoin Protocol	
Heidelberg Laureate Forum: Workshop on Transactions and Blockchains, Heidelberg, Germany	Sept. 2017
UW CSE Women's Day, Seattle, WA	Jan. 2016
UW CSE Women's Day, Seattle, WA	May 2015
CRA-W Grad Cohort, San Francisco, CA	Apr. 2015
Minimal Partial Language and Automata	
Conference on Implementation and Application of Automata, Germany	July 2014
Different Optimal Solutions in Shared Path Graphs	
Midstates Conference for Undergraduate Research in Computer Science and Mathematics	Nov. 2012
5 Colleges of Ohio Summer Research Symposium	July 2012
SERVICE AND OUTREACH:	
Program Committee for EC '19, NetEcon '19, MD4SG '19 (Theory area chair)	2019
External Reviewer for FOCS '19	2019
Program Committee for AIES '19	2018
External Reviewer for JACM, TEAC, STOC '19, ITCS '19, SODA '19, WINE '18, ESA '18	2018
Member, PhD Admissions Committee, University of Washington CSE	2017 - 2019
External Reviewer for STOC '18, SODA '18, WINE '17, ESA '17, ICALP '17	2017
External Reviewer for IPCO '17, STACS '17, SODA '17, WINE '16, EC '16	2016
EAUGINAL INEVIEWEL TOLLI CO 11, STACS 11, SODA 11, WINE 10, EC 10	2010

Co-Chair, Graduate Women's Organization, University of Washington CSE	2015 - 2016
Co-Chair, Graduate Prospective Student Committee, University of Washington CSE	
Founder and Mentor, Mentoring Program for Undergraduate Women, University of Washington CSE	
Member, Graduate Prospective Student Committee, University of Washington CSE	2014 - 2015
Founder and Co-Chair, Women in Math and Computer Science, Oberlin College	Spring 2014
TEACHING ASSISTANTSHIPS:	
Applied Algorithms (Professional Masters Program), University of Washington	Spring 2015
Applied Algorithms (Professional Masters Program), University of Washington Foundations of Computing II, University of Washington	Spring 2015 Fall 2014
Foundations of Computing II, University of Washington	Fall 2014