

Computer Science & Engineering  
University of Washington  
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**Kira Goldner**  
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## EDUCATION:

**University of Washington, Seattle, WA** 2014 – Present  
Ph.D. Student in Computer Science and Engineering – GPA: 3.9  
Masters in Computer Science and Engineering 2016  
Advisor: Anna Karlin

**Oberlin College, Oberlin, OH** 2010 – 2014  
Bachelor of Arts: Mathematics Major, Computer Science Minor – GPA: 3.85

**Budapest Semesters in Mathematics, Budapest, Hungary** Fall 2013  
*Honors*, Study Abroad – GPA: 4.0

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## RESEARCH INTERESTS:

My interests lie in algorithmic mechanism design and approximation, in particular, in revenue maximization, simple mechanisms, non-traditional settings (e.g. prior-independent or risk-averse), and mechanisms that mitigate inequality.

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## AWARDS, SCHOLARSHIPS, AND DISTINCTIONS:

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

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## PUBLICATIONS:

**Aversion to Uncertainty and Its Implications for Revenue Maximization**, with Shuchi Chawla, J. Benjamin Miller, and Manolis Pountourakis. In submission.

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

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

**Minimal Partial Languages and Automata**, with F. Blanchet-Sadri and Aidan Shackleton. In *Proceedings of the 19<sup>th</sup> 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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## INVITED PARTICIPATION:

Heidelberg Laureate Forum – Heidelberg, Germany September 2017

Greece Economic and Algorithmic Theory Week – Ikaria, Greece	July 2017
Young Researcher Workshop on Economics and Computation – Tel Aviv University, Israel	January 2017
Algorithms & Uncertainty Semester – The Simons Institute at UC Berkeley, CA	Fall 2016
Women in Theory Workshop – Berkeley, CA	May 2016
Economics & Computation Semester – The Simons Institute at UC Berkeley, CA	Fall 2015
CRA-W Grad Cohort Conference – San Francisco, CA	April 2015
Algorithmic Combinatorics on Words NSF REU Program – UNC Greensboro, NC Research Advisor: Francine Blanchet-Sadri	Summer 2013
Undergraduate Optimization Art Research – Oberlin College, OH Research Advisor: Robert Bosch	Spring 2013
Ohio Wesleyan University NSF REU Program – Ohio Wesleyan University, OH Research Advisor: Sean McCulloch	Summer 2012

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## INVITED TALKS:

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### **The FedEx Problem**

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 Letzot 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
UW-Madison Theory Seminar, Madison, WI	Nov. 2016
Microsoft Research Theory Seminar, Redmond, WA	Oct. 2016
UC Berkeley Theory Lunch, Berkeley, CA	Sept. 2016
Stanford University Theory Lunch, Palo Alto, CA	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

### **Aversion to Uncertainty and Its Implications for Revenue Maximization**

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

### **Game Theoretic Aspects of the Bitcoin Protocol**

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
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## 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

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### SERVICE:

**Organizer and PC Chair** for the 1<sup>st</sup> Workshop on Mechanism Design for Social Good at EC

June 2017

**Organizer** for the Mechanism Design for Social Good reading group

2016-2018

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### OUTREACH:

**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 for Undergrad 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

**Member**, Mathematics Majors Committee, Oberlin College

2012 – 2014

**Urban Education Intern**, Legacy Charter School, Chicago, IL

Winter 2013

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### TEACHING ASSISTANTSHIPS:

Applied Algorithms (Professional Masters Program), University of Washington

Spring 2015

Foundations of Computing II, University of Washington

Fall 2014

Theory of Computer Science, Oberlin College

Spring 2014

Introduction to Computer Science, Oberlin College

Spring 2013

Introduction to Computer Science, Oberlin College

Spring 2012