

Computer Science & Engineering  
University of Washington  
kgoldner@cs.washington.edu

**Kira Goldner**  
<http://homes.cs.washington.edu/~kgoldner>

Box 352350  
Seattle, WA 98195  
Cell: 610-324-3931

---

## 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

---

## RESEARCH INTERESTS:

My interests lie in algorithmic mechanism design and approximation, in particular, in revenue maximization, simple mechanisms, prior-independent or unknown-value settings, and mechanisms that mitigate inequality.

---

## RELEVANT GRADUATE COURSEWORK:

- Design and Analysis of Algorithms
- Randomized Algorithms
- Linear and Semi-Definite Programming in Approximation Algorithms
- Computational Complexity
- Machine Learning
- Computer-Aided Reasoning for Software
- Computer Security

---

## AWARDS, SCHOLARSHIPS, AND DISTINCTIONS:

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

### Travel Awards

ACM SIGACT Student Travel Grant for STOC 2015

NSF Student Travel Award for CCC

---

## PUBLICATIONS:

**A Prior-Independent Revenue-Maximizing Auction for Multiple Additive Bidders**, with Anna Karlin. To appear 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).

---

## INVITED PARTICIPATION:

---

CS-Econ Young Researcher Workshop – 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

---

## INVITED TALKS:

---

### **A Prior-Independent Revenue-Maximizing Auction for Multiple Additive Bidders**

Conference on Web and Internet Economics, Montreal, Canada	Dec. 2016
--	-----------

### **The FedEx Problem**

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

### **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
---	-----------

### **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

---

## OUTREACH:

---

<b>Co-Chair</b> , Graduate Women's Organization, University of Washington CSE	2015 – 2016
<b>Co-Chair</b> , Graduate Prospective Student Committee, University of Washington CSE	
<b>Founder and Mentor for Undergrad Women</b> , University of Washington CSE	
<b>Member</b> , Graduate Prospective Student Committee, University of Washington CSE	2014 – 2015
<b>Founder and Co-Chair</b> , Women in Math and Computer Science, Oberlin College	Spring 2014

**Member**, Mathematics Majors Committee, Oberlin College  
**Urban Education Intern**, Legacy Charter School, Chicago, IL

2012 – 2014  
Winter 2013

---

## 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