

**Soumya Basu**  
Graduate Student  
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Updated: March 4, 2018  
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**Education**

**Cornell University** Ithaca, NY  
*PhD Computer Science* 2015 - 2021 (projected)

- Advisor: Emin Gün Sirer

**University of California at Berkeley** Berkeley, CA  
*BS Computer Science Engineering, Minor in Mathematics* 2011 - 2015

**Awards, Grants & Honors**

NSF GRFP Fellowship . . . . .	2016
Outstanding Teaching Assistant, Cornell University . . . . .	2016
ACM SIGCOMM Best Student Paper Award . . . . .	2015
Putnam Competition Honor Roll . . . . .	2012, 2013, 2015
Eta Kappa Nu Member and Officer . . . . .	2012-Present
Regents' and Chancellors' Scholarship . . . . .	2011

**Publications**

Adem Efe Gencer, **Soumya Basu**, Ittay Eyal, Robbert van Renesse, Emin Gün Sirer. *Decentralization in Bitcoin and Ethereum Networks*. In *Proc. Financial Cryptography and Data Security Conference (FC)*, 2018.

Aman Agarwal, **Soumya Basu**, Tobias Schnabel, Thorsten Joachims. *Effective Evaluation using Logged Bandit Feedback from Multiple Loggers*. In *Proc. ACM International Conference on Knowledge Discovery and Data Mining (KDD)*, 2017.

Justine Sherry, Peter Gao, **Soumya Basu**, Aurojit Panda, Arvind Krishnamurthy, Christian Macciocco, Maziar Manesh, Joao Martins, Sylvia Ratnasamy, Luigi Rizzo, Scott Shenker. *Rollback Recovery for Middleboxes*. In *Proc. ACM SIGCOMM*, 2015. **Awarded Best Student Paper**

**Soumya Basu**, Brian Hou, Albert Wu, John DeNero. *Problems Before Solutions: Automated Problem Clarification at Scale*. In *Proc. ACM Learning at Scale (L@S)*, 2015.

**Poster Presentations**

Justine Sherry, Peter Gao, **Soumya Basu**, Aurojit Panda, Arvind Krishnamurthy, Christian Macciocco, Maziar Manesh, Joao Martins, Sylvia Ratnasamy, Luigi Rizzo, Scott Shenker. *Rollback Recovery for Middleboxes*. In *EECS Undergraduate Research Symposium*, 2015.

## Talks

- Decentralization in Bitcoin and Ethereum Networks.** Willemstad, Curaçao  
*Financial Cryptography and Data Security Conference* February 28, 2018
- Falcon Network Update** New York City, NY  
*IC3 Fall Retreat* October 5, 2017
- Falcon Network: A High-Performance, Wide Area Interconnect** San Francisco, CA  
*IC3 Winter Retreat* Feb 24, 2017
- Falcon Network: A High-Performance, Wide Area Interconnect** New York City, NY  
*IC3 Retreat* May 17, 2016
- Distributed Systems** Berkeley, CA  
*Guest Lecture for CS 61A. Host: John DeNero.* April 24, 2015  
CS 61A is called Structure and Interpretation of Computer Programs.
- Problems Before Solutions: Automated Problem Clarification at Scale** Vancouver, BC  
*Second ACM Conference on Learning at Scale (L@S)* March 15, 2015
- Huffman Encoding** Berkeley, CA  
*Guest Lecture for CS 61A. Host: John DeNero.* February 19, 2015
- Distributed Systems** Berkeley, CA  
*Guest Lecture for CS 61A. Host: John DeNero.* November 11, 2014
- Iterators** Berkeley, CA  
*Guest Lecture for CS 61A. Host: Amir Kamil.* April 15, 2013

## Teaching Experience

- Teaching Assistant, CS 4410/4411: Operating Systems** Ithaca, NY  
*Cornell University under Michael George and Emin Gün Sirer* Jan 2016-May 2016
- Was the 4411 Head TA
  - Ran two office hours per week.
- Teaching Assistant, CS 4410/4411: Operating Systems** Ithaca, NY  
*Cornell University under Anne Bracy and Robbert Van Renesse* Aug 2015-Dec 2015
- Ran two office hours per week.
  - Helped create a new project on building a simple networking stack.
- Teaching Assistant, CS 61A** Berkeley, CA  
*University of California, Berkeley under John DeNero* Jan 2015-May 2015
- CS 61A is called Structure and Interpretation of Computer Programs.
  - Responsible for grading all homework, project and labs for about 1000 students through the ok autograding system.
  - Ran one lab, one discussion section, and two office hours per week.

- *Student evaluation Overall Teaching effectiveness: 4.7/5*

### **Teaching Assistant, CS 61A**

*University of California, Berkeley under John DeNero*

Berkeley, CA  
Aug 2014-Dec 2014

- Led transition to and development of ok autograding system.
- Ran one lab, one discussion section, and one office hour per week.
- *Student evaluation Overall Teaching effectiveness: 4.9/5*

### **Reader, CS 70: Discrete Mathematics and Probability Theory**

*University of California, Berkeley under James Cook*

Berkeley, CA  
May 2014-Aug 2014

- Responsible for grading student homework assignments.

### **Teaching Assistant, CS 61A**

*University of California, Berkeley under Paul Hilfinger*

Berkeley, CA  
Jan 2014-May 2014

- Ran two labs, one discussion section, and two office hours per week.
- *Student evaluation Overall Teaching effectiveness: 4.4/5*

### **Teaching Assistant, CS 61A**

*University of California, Berkeley under John DeNero*

Berkeley, CA  
Aug 2013-Dec 2013

- Ran two labs, two discussion sections, and two office hours per week.
- *Student evaluation Overall Teaching effectiveness: 4.4/5*

### **Teaching Assistant, CS 61A**

*University of California, Berkeley under Amir Kamil*

Berkeley, CA  
Jan 2013-May 2013

- Ran two labs, two discussion sections, and two office hours per week.
- *Student evaluation Overall Teaching effectiveness: 4.3/5*

### **Reader, CS 61A**

*University of California, Berkeley under John DeNero*

Berkeley, CA  
Aug 2012-Dec 2012

- Responsible for grading student code for composition quality.
- Met with students to help their code composition.

## **Industry Experience**

### **Research Intern, VMWare Research Group**

*VMWare, Inc., Mentor: Dahlia Malkhi*

Palo Alto, CA  
May 2017-Aug 2017

### **Research Intern, Systems Research Group**

*Microsoft Corporation, Mentor: Srinath Setty*

Redmond, WA  
May 2016-Aug 2016

### **Software Developer Intern, Chrome OS Team**

*Google Inc.*

Mountain View, CA  
May 2014-Aug 2014

### **Software Developer Intern, Outlook.com Team**

*Microsoft Corporation*

Mountain View, CA  
May 2013-Aug 2013

## **Community**

### **CS PhD Visit Day Czar**

*Cornell University*

Ithaca, NY  
Jan 2016-March 2016

- Helped run the Cornell CS PhD Visit Day

**Eta Kappa Nu Corresponding Secretary**

*University of California, Berkeley*

Berkeley, CA

*Jan 2013-Dec 2013*

- Ran anonymized course surveys for the entire Berkeley EECS department for Spring 2013 and Fall 2013 semesters.

**Eta Kappa Nu Industrial Relations Officer**

*University of California, Berkeley*

Berkeley, CA

*Aug 2012-Dec 2012*

- Ran infoessions on behalf of Eta Kappa Nu to help companies recruit members from the Berkeley EECS community.

**Berkeley Math Tournament Coordinator**

*University of California, Berkeley*

Berkeley, CA

*Jan 2012-May 2012*

- Founded a new math tournament at Berkeley campus for high school students similar to Harvard-MIT Mathematics Tournament and Stanford Math Tournament.
- 188 participants in first competition. Grew in size even after I left: 207 participants in 2013 and 283 participants in 2014.