

Soumya Basu
Graduate Student
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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

Aman Agarwal, **Soumya Basu**, Tobias Schnabel, Thorsten Joachims. *Effective Evaluation using Logged Bandit Feedback from Multiple Loggers*. In *Proc. ACM 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

- 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** Berkeley, CA
University of California, Berkeley under John DeNero 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 info sessions 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.