

## EDUCATION

---

### Massachusetts Institute of Technology.

Ph.D. Computer Science, August 2016 — Present

### University of California, Berkeley.

Bachelor of Science with High Honors, May 2015.

Electrical Engineering and Computer Science. GPA 3.855.

## RESEARCH

---

### Publications

“Restructuring Endpoint Congestion Control.” **Akshay Narayan**, Frank Cangialosi, Deepti Raghavan, Prateesh Goyal, Srinivas Narayana, Radhika Mittal, Mohammad Alizadeh, Hari Balakrishnan. *SIGCOMM 2018*.

“Sincronia: Near-Optimal Network Design for Coflows.” Saksham Agarwal, Shijin Rajakrishnan, **Akshay Narayan**, Rachit Agarwal, David Shmoys, Amin Vahdat. *SIGCOMM 2018*. **Awarded Best Student Paper**.

“The Case for Moving Congestion Control Out of the Datapath.” **Akshay Narayan**, Frank Cangialosi, Prateesh Goyal, Srinivas Narayana, Mohammad Alizadeh, Hari Balakrishnan. *HotNets 2017*.

“Network Requirements for Resource Disaggregation.” Peter Gao, **Akshay Narayan**, Sagar Karandikar, Joao Carreira, Sangjin Han, Rachit Agarwal, Sylvia Ratnasamy, Scott Shenker. *OSDI 2016*.

“pHost: Distributed Near-Optimal Datacenter Transport Over Commodity Network Fabric.” Peter Gao, **Akshay Narayan**, Gautam Kumar, Rachit Agarwal, Sylvia Ratnasamy, Scott Shenker. *CoNEXT 2015*.

## TEACHING

---

MIT, Fall 2018. *6.829: Computer Networks*.

Instructors: Hari Balakrishnan and Mohammad Alizadeh.

UC Berkeley, Fall 2014. *CS168: Introduction to Computer Networks*.

Instructor: Sylvia Ratnasamy. Average Student Rating: 4.33 / 5

## EXPERIENCE

---

### **Microsoft**

*May 2018 — August 2018*

Research Intern.

Microsoft Research: Mobility and Networking.

Wide-area end-to-end traffic optimization, datacenter transport.

### **University of California, Berkeley**

*Spring 2014 — August 2016*

Staff Researcher, NetSys Lab.

Datacenter transport, resource disaggregation, container orchestration.

### **Microsoft**

*May 2014 — August 2014*

Software Development Engineer Intern.

Operating Systems Group: Application Compatibility Team.

Operating systems, APIs.

### **Jive Software**

*May 2013 — August 2013*

Engineering Intern. Platform API Team.

Web development, distributed systems.

### **NASA Ames Research Center**

*May 2012 — November 2012*

Program Participant, Education Associates Program.

Mobile development, graphics.

## HONORS AND AWARDS

---

**SIGCOMM** Best Student Paper Award, *2018*

**MIT NSF** Graduate Research Fellowship, *2017*

**MIT Jacobs** Presidential Fellowship, *2016*

**UC Berkeley** Boeing Scholar, *2014*

**UC Berkeley** Eta Kappa Nu, *2012*

**UC Berkeley** Regents and Chancellors Scholar, *2011*