

Frank Austin Nothaft

fnothaft@berkeley.edu • <http://www.fnothaft.net> • 202.340.0466

Education

University of California, Berkeley

MS/PhD, Computer Science. August 2013–present. GPA: 3.77.

Stanford University

Bachelor of Science with Honors, Electrical Engineering. June 2011.

GPA: 3.24. Minor in Management Science & Engineering

Publications

Peer-Reviewed Conference Proceedings

Frank Austin Nothaft, et al. “Rethinking data-intensive science using scalable analytics systems.” To appear in *Proceedings of the International Conference on Management of Data*, May 2015 (SIGMOD ’15).

Frank Austin Nothaft, Luis Fernandez, Stephen Cefali, Nishant Shah, Luke Darnell, and Jacob Rael. “Pragma-based floating-to-fixed point conversion for the emulation of analog behavioral models.” In *Proceedings of the International Conference on Computer-Aided Design*, November 2014 (ICCAD ’14).

Krishna Malladi, **Frank Austin Nothaft**, Kartika Periythambi, Benjamin Lee, Christos Kozyrakis, and Mark Horowitz. “Towards energy-proportional datacenter memory with mobile DRAM.” In *Proceedings of the International Symposium on Computer Architecture*, June 2012 (ISCA ’12).

Technical Reports

Matthew Massie, **Frank Austin Nothaft**, Christopher Hartl, Christos Kozanitis, Anthony D. Joseph, and David Patterson. “ADAM: Genomics formats and processing patterns for cloud scale computing.” *University of California, Berkeley Technical Report UCB/EECS-2013-207*. November 2013.

Theses

Frank Austin Nothaft, “Design strategies for compiler managed instruction stores.” Honors Thesis, Stanford University, June 2011.

Honors

NSF Graduate Research Fellowship

National Science Foundation, 2013–2016

Hugh Hildreth Skilling Award for Teaching Excellence

Stanford University Department of Electrical Engineering, June 2011

Departmental Honors

Stanford University Department of Electrical Engineering, June 2011

Presentations

Conference Talks

“The Emulation of Analog Behavioral Models.”
International Conference on Computer Aided Design (ICCAD ’14),
San Jose, CA, November 2014

“ADAM: Fast, Scalable Genome Analysis”
Bioinformatics Open Source Conference (BOSC ’14), Boston, MA, July 2014
Spark Summit, San Francisco, CA, June 2014

Presentations (con't.)	<i>Invited Talks</i>	
	“ADAM: Fast, Scalable Genome Analysis” <i>DNANexus</i> , Mountain View, CA, December 2014 <i>Novartis Institutes</i> , Cambridge, MA, October 2014 <i>Wellcome Trust Genome Center</i> , Hinxton, UK, July 2014 <i>Strata Big Data Science Meetup</i> , Santa Clara, CA, February 2014 “Automation For Validating Behavioral Models Against Schematics” With Nishant Shah, <i>Cadence Mixed Signal Design Summit</i> , San Jose, CA, September 2012	
Experience	Broadcom, Engineer, Staff 1—IC Design	April 2012—present
	Broadcom, Engineer—IC Design	June 2011—April 2012
	Design verification and automation for RF/mixed-signal integrated circuits	
Teaching	Digital Systems Design Lab	Spring 2010—2011
	Dr. James Weaver, Stanford University, Course Assistant	
	Digital Systems Design 1	Fall & Winter 2009—2011
	Professor Subhasish Mitra, Stanford University, Course Assistant	
Service	<i>Standards Bodies</i>	
	Co-chair, GA4GH Containers and Workflows Working Group, 2015 Member, GA4GH Data Working Group, 2014–present <i>Conference Organization</i> New Frontiers in Computing (NFIC) <i>Co-Chair</i> , Stanford, CA, 2010 <i>Organizing Committee Member</i> , Stanford, CA, 2009 <i>Reviewing</i> Hot Topics in Networks Workshop (HotNets), 2014 <i>Professional Society Leadership</i> Chair, IEEE Orange County Computer Society, 2013 Vice Chair, IEEE Orange County Computer Society, 2012 Chair, Stanford University IEEE Student Branch, June 2009–June 2011 <i>Outreach</i> Project Mentor <i>Techbridge</i> , Oakland, CA, 2014 Panel on Careers in Science, Technology, Engineering, and Mathematics <i>The Wooden Floor</i> , Santa Ana, CA, May 2012 <i>Professional Society Membership</i> IEEE : Member: 2011–present, Student Member: 2007–2011 ACM : Member: 2011–present, Student Member: 2011 ISCB : Student Member: 2014–present <i>Students Mentored</i> <i>Eric Tu</i> , UC Berkeley, Undergraduate/Masters <i>Niranjana Kumar</i> , UC Berkeley, Undergraduate <i>Ananth Pallaseni</i> , UC Berkeley, Undergraduate	