Benno Stein

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Department of Computer Science
University of Colorado Boulder
Boulder, CO, 80309

EDUCATION	**University of Colorado**, Boulder, CO	
	Doctor of Philosophy, Computer Science	2015 to Present
	Programming Languages and Verification Group	
	Advisor: Bor-Yuh Evan Chang	
	University of Colorado, Boulder, CO	
	Master of Science, Computer Science	2015 to 2017
	Cumulative GPA: 3.95 / Expected Fall '17	
	Williams College, Williamstown, MA	
	Bachelor of Arts Cum Laude, Computer Science and Mathematics	2011-2015
	Cumulative GPA: 3.79 / *Computer Science GPA:* 3.86	
	Rye High School, Rye, NY	
	National Merit Scholar, National AP Scholar, National Honor Society	2007-2011

EXPERIENCE	**Research Assistant**	University of Colorado, Boulder
	Summer 2015 - Present	Boulder, CO

Perform research under Prof. Bor-Yuh Evan Chang in the Programming Languages and Verification Group, studying program analysis and verification, focusing on the analysis of modern dynamic languages like JavaScript.

	Course Assistant	University of Colorado, Boulder
	Fall 2017	Boulder, CO

Taught several lectures while the primary instructor travelled, ran office hours and one-on-one tutoring sessions, and helped design problem sets and exams for a joint undergraduate/graduate Compilers course.

	Program Analysis Intern	Uber
	Summer 2017	Palo Alto, CA

Built static analysis tooling to detect threading defects in functional-reactive Android applications.

	Research Assistant	University of Michigan
	Summer 2014	Ann Arbor, MI

Performed research under Prof. Michael Wellman in the Strategic Reasoning Group, studying machine learning-based high-frequency trading algorithms using empirical game-theoretic models.

	Teaching Assistant/Tutor	Williams College CS Department
	2012-2014	Williamstown, MA

Ran TA sessions and one-on-one tutoring sessions and assisted professors in administering lectures, labs, and exams for a broad range of Computer Science courses.

	Software Development Intern	Fiksu, Inc.
	Summer 2013	Boston, MA

Built internal data management and reporting software in Ruby on Rails and PostgreSQL. Worked on a large codebase with many contributors and massive production databases.

AWARDS AND HONORS	**Dean's Graduate Assistantship, University of Colorado Boulder**	2015-2016
	University-wide merit-based award providing one year of tuition and stipend.	
	ACM Student Research Competition, PLDI, 2nd Place	2016

Submitted an extended abstract, presented a research poster, and gave a talk on *Goal-Directed Backwards Static Analysis for JavaScript.*

SPEAKING	Graduate Research Forum, CU Boulder CS Department	Fall 2017
	PL & Verification Seminar, CU Boulder	Fall 2017
	Student Research Presentation, Oregon PL Summer School	Spring 2016
	ACM Student Research Competition, PLDI	Spring 2016
	Math Department Colloquium, Williams College	Fall 2014
	REU Research Forum, University of Michigan	Summer 2014
	Hudson River Undergraduate Math Conference	Spring 2013

SERVICE

Chair, PhD Student Faculty Search Committee   2016-2017

Organized and participated in student interviews for visiting faculty candidates, compiled PhD student feedback, and served as liaison to faculty search committee.

Member, Computer Science Student Advisory Committee   2013-2014

Met with visiting speakers and job candidates to the Williams computer science department and provided feedback on job candidates. Organized department meetings and social events. Elected by peers as one of two student representatives.

Sub-reviewer

Reviewed papers and participated in peer-review discussion/debate for the following venues:

- Asian Symposium on Programming Languages and Systems (**APLAS**)   2017
- Computer-Aided Verification (**CAV**)   2017
- Static Analysis Symposium (**SAS**)   2016