Benno Stein

(914) 255 - 8010
benno.stein@colorado.edu
plv.colorado.edu/benno

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
Advisor: Bor-Yuh Evan Chang

University of Colorado, Boulder, CO
Master of Science, Computer Science   2015 to 2017

Williams College, Williamstown, MA
Bachelor of Arts, Computer Science and Mathematics   2011-2015

Rye High School, Rye, NY
National Merit Scholar, National AP Scholar, National Honor Society   2007-2011

EXPERIENCE (ACADEMIA)

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 analysis
techniques for modern dynamic languages.

Course Assistant   University of Colorado, Boulder
Fall 2017   Boulder, CO
Taught approximately 10 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.

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 adminis-
tering lectures, labs, and exams for a broad range of Computer Science courses.

EXPERIENCE (INDUSTRY)

Software Engineer Intern   Google
Summer 2018   Sunnyvale, CA
Worked on the open-source Error Prone static analyzer, improving the Java nullablity
analysis and implementing a novel nullness type inference algorithm.

Program Analysis Intern   Uber
Summer 2017   Palo Alto, CA
Built static analysis tooling to detect threading defects in functional-reactive Android
applications.

Software Engineer Intern   Fiksu, Inc.
Summer 2013   Boston, MA
Built internal data management and reporting software in Ruby on Rails and Post-
greSQL. Worked on a large codebase with many contributors and massive production
databases.

PUBLICATIONS

Benno Stein, Lazaro Clapp, Manu Sridharan, and Bor-Yuh Evan Chang. 2018. Safe
Stream-based Programming with Refinement Types. In *Proceedings of the IEEE/ACM
International Conference on Automated Software Engineering (ASE)*. Acceptance: 20%

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

Paper Presentation, ASE '18	Summer 2018
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.

Reviewing

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

- Symposium on Principles of Programming Languages (**POPL**)	2019
- Asian Symposium on Programming Languages and Systems (**APLAS**)	2017
- International Conference on Computer-Aided Verification (**CAV**)	2017
- Static Analysis Symposium (**SAS**)	2016