

ANNIE CHERKAEV

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EDUCATION

2016 – present **PhD Student in CS**
University of Utah
GPA: 4.0/4.0

2011 – 2015 **B.S. University of Utah**
Major: Mathematics
Minor: Computer Science
GPA: 3.9/4.0

Summer 2016 **Recurse Center**
Self-directed programming retreat

COURSEWORK

Distributed Systems & OS
Compilers & Advanced Compilers
Programming Languages
Machine Learning & AI
Deep Learning Seminar
Functional Programming Studio
Advanced Algorithms
Advanced Architecture
Computer Systems & Digital Circuits

LANGUAGES

Python, Haskell, Racket, Go
C++, C, Scala, C#, Java, Bash

whoami

When I'm not at my computer I:
Cook, Climb, Bike & Draw

OPEN SOURCE PATCHES

CVE-2017-12762

Found and patched a potential buffer overflow in an ISDN driver in the linux kernel. (C; Shared with Jiten Thakkar)

GHC Bugfix #12117

Fixed a small bug in the Haskell compiler where incorrect variable shadowing produced incorrect error messages.

RESEARCH PROJECTS

Rosie, a Language for Experimental Design

Rosie provides high-level abstractions which allow scientists to declaratively describe the analysis they wish to perform, and produces an experimental sequences with statistical guarantees that it is unbiased. Rosie compiles this high-level interface to SAT clauses, which it uses to interface with a SAT sampler. (Haskell)

Low Precision Machine Learning

Investigating the effects of precision & numeric representation on classification accuracy and convergence speed of linear classifiers for dataset with different characteristics. (Haskell)

WORK EXPERIENCE

Summer 2014

Software Development Intern, Delcam, SLC, Utah

Developed a wizard for designing custom gears and a macro that got included in 'What's New' for FeatureCAM 2015 (a CAD/CAM tool), among other feature requests and bug fixes. (C++)

Other

Research Assistant:

Visualization, Astronomy, Matrix Analysis

Teaching Assistant:

Machine Learning, Intro to Object Oriented Programming