

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. (Haskell)

RESEARCH PROJECTS

SweetPea, a Language for Experimental Design

Designed & implemented a language with high-level abstractions that allow scientists to declaratively describe the analysis they wish to perform, and then produces an experimental sequence with statistical guarantees that the sequence is unbiased. SweetPea compiles the high-level interface to SAT clauses, which are then evaluated by a SAT sampler. (Haskell)

Software Simulator for Numeric Representations

Designed & implemented a software simulation of different numeric representation to investigate the effect of choice of representation on classification accuracy and convergence speeds of linear classifiers. (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