

# ANNIE CHERKAEV

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bitbucket.com/anniecherk  
github.com/anniecherk



## 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

## 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. (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

### Constraint Ordering DSL

A “SAT-sampler aided” domain specific language which

1. Provides an interface for expressing constraints about the ordering of a sequence, and
2. Finds a sequence that satisfies the constraints with the guarantee that all satisfying solutions are uniformly probable.

### 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.

## 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.

Other

### Research Assistant:

Visualization, Astronomy, Matrix Analysis

### Teaching Assistant:

Machine Learning, Intro to Object Oriented Programming