

# Darya Verzhbinsky

## Education

Sept '17 – **BS Computer Science, UC San Diego**, La Jolla.

June '21 **Advisor:** Nadia Polikarpova

## Research

June '20 – **Undergraduate Researcher, UC San Diego - CSE Department**, La Jolla, CA.

present **Advisor:** Nadia Polikarpova

(Plan to submit paper)

- Working on Hoogle+ team (<http://hoogleplus.goto.ucsd.edu/>)
- Building Type-Guided Top-Down Enumerative Synthesis tool for fully polymorphic and higher-order programs in Haskell

Sept '18 – **Student Researcher, UC San Diego - CSE Department**, La Jolla, CA.

June '19 **Program:** Early Research Scholars Program - research program designed for 2nd year CSE students to gain access to the Computer Science research

**Advisor:** Jishen Zhao

- Project targeted the exploration of various software caching mechanisms in key-value store database on SSD using C++ and Linux
- Analyzed the access patterns of various applications and aimed to identify bottlenecks of Linux's `mmap()` system call

## Teaching

Sept '18 – **Computer Science Tutor, UC San Diego - CSE Department**, La Jolla, CA.

Present ◦ Tutor for:

- Intro to Computer Science - Java + Python (FA '18, FA '19, FA '20) (**current**)
- Programming Languages (WI '20, SP '20)
- Basic Data Structures and OOD - Java + C (WI '19)
- Intro to Discrete Mathematics (SP '19)

- Duties include: managing the scheduling of the tutor staff holding lab hours, grading programming assignments/exams, debugging code written by students, and answering online questions

Jun '18 – **Assistant Teacher, Girls Who Code**, Mountain View, CA.

Aug '18 ◦ Instructed a classroom of 20 high school girls on the basics of Computer Science in Scratch, Python, Arduino C / Robotics, Web Development, Data Science, and algorithms in a 7 week Summer Immersion Program through non-profit organization Girls Who Code

- Facilitated the development of several full-stack projects
- Served as the representative of Girls Who Code at Intuit HQ

## Industry

June '19 – **Engineering Practicum Intern, Google**, Sunnyvale, CA.

Sept '19 ◦ Worked on KUnit dev team, which is a unit testing tool for the Linux Kernel ([https://google.github.io/kunit-docs/third\\_party/kernel/docs/](https://google.github.io/kunit-docs/third_party/kernel/docs/))

- Improved test coverage for `kunit_tool` by 20%
- Integrated line coverage results into `kunit_tool` through Prow's presubmit tool using GCOV and LCOV
- Implemented incremental coverage as part of line coverage reporting

## Service

ICFP '20 Student Volunteer

Virtual Conference

PLDI '20 Student Volunteer

Virtual Conference

POPL '20 Student Volunteer

New Orleans, LA, USA