

## Talia Lily Ringer

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<http://tlringer.github.io/>

### EDUCATION

#### **University of Washington**

2015 – Present

Ph.D. in Computer Science

Advisor: Dan Grossman

Programming Languages & Software Engineering

#### **University of Maryland, College Park**

2008 – 2012

B.S. in Mathematics and Computer Science

Advisor: Lawrence Washington

Honors Thesis: [An Elliptic Curve Threshold Key Establishment Scheme](#)

### HONORS & AWARDS

**NSF GRFP Fellow**

University of Washington

**Graduated with Honors in Computer Science**

University of Maryland

**Graduation Speech Finalist**

University of Maryland

**Corporate Scholar**

University of Maryland

### PUBLICATIONS

Talia Ringer, Dan Grossman, and Franziska Roesner.

[AUDACIOUS: User-Driven Access Control with Unmodified Operating Systems.](#)

To appear at CCS 2016.

### CURRENT RESEARCH

#### **Amazon Web Services: Automated Reasoning Group**

Summer 2016

Advisors: Serdar Tasiran and Daniel Schwartz-Narbonne

Interning with Byron Cook's research group at Amazon. Using sketch-style program synthesis to generate tests for developers in a way that is flexible, powerful, and integrates easily into the development pipeline.

### TEACHING

#### **University of Washington**

Winter 2016

Teaching Assistant for Compilers

#### **University of Maryland, College Park**

Spring 2012

Teaching Assistant for Computer and Network Security

#### **University of Maryland Academic Support & Career Development Unit**

2010

Tutor

Tutored student-athletes in mathematics and computer science.

## INDUSTRY

### **Amazon**

2012 – 2015

#### *Software Development Engineer*

Worked with a team to develop the AmazonSupply website. Contributed to the development of an internal framework and reusable components used company-wide. Developed a data flow analysis tool for the framework and components. Participated in the launch of the service that enabled the partnership between Amazon and DonorsChoose. Launched Amazon Business marketplace. Served as a mentor for several engineers.

### **Amazon**

Summer 2011

#### *Software Development Engineer Intern*

Developed an internal Spring MVC web application to generate metadata for the AmazonSupply website in a safe and user-friendly manner. Enabled version control and staging for the metadata.

### **Carr Astronautics**

2010 – 2011

#### *Corporate Scholars Program – Software Intern*

Assisted in the development of a parallel image mosaicing application. Wrote code in C, MATLAB, and Java, dealing primarily with reading, altering, and writing TIFF images with associated geographic data. Awarded a scholarship through the University of Maryland's Corporate Scholars Program. Continued to work part-time during the school year.

## ACTIVITIES

### **UW CSE**

2015 – Present

#### *Mentor*

Mentor for undergraduate women in computer science.

### **TUNE House**

2015 – Present

#### *Mentor*

Living-and-learning community for undergraduate women in computer science.

### **Club Northwest**

2012 – Present

#### *Board Member*

### **NCAA Division I Cross-Country**

2009

#### *Scholar-Athlete*

### **University of Maryland Women in Mathematics**

2008 – 2012

## SKILLS

Programming languages: Java, Ruby, OCaml, Scala, C, MATLAB, JavaScript.

Other computer skills: Android, Coq, Software Engineering, Spring MVC, Linux.

Languages: English, Hebrew.

## INTERESTS

Academic: Type theory, verification, formal methods, computer security, program analysis, program synthesis, abstract algebra, cryptology.

Personal: Distance running, triathlon, logic and number puzzles, esoteric programming languages, neoclassical piano composition.