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.
CCS 2016.

CURRENT RESEARCH

Proof Evolution
Working with Dan Grossman and Nate Yazdani to generate patches for proofs that break
as a result of changes in theorems in proof assistants like Coq.

PAST RESEARCH

Amazon Web Services: Automated Reasoning Group *Summer 2016*
Interned with Byron Cook's research group at Amazon. Designed and implemented a solver-
aided domain-specific language to help developers write unit tests for web services.

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 and graduate students in computer science.

TUNE House   *2015 – 2016*
Mentor
Living-and-learning community for undergraduate women in computer science.

Club Northwest   *2012 – 2016*
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, category theory, domain-specific languages,
formal methods, computer security, program analysis, program synthesis, abstract algebra,
cryptology.

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