

# Sam Castle

Computer Security and ICTD Researcher

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## Summary

I am a Ph.D. Student at the University of Washington. My primary interests include computer security & privacy, information and communication technologies for development (ICTD), mobile devices and infrastructure, and data analytics.

## Education

2015

**Ph.D. in Computer Science and Engineering**, *University of Washington*, Seattle, WA.

Research: Computer security for digital financial services (mobile money) in emerging markets.  
Advisor: Richard Anderson

2017

**M.S. in Computer Science and Engineering**, *University of Washington*, Seattle, WA.

2010

2015

**B.S. in Mathematics**, *Davidson College*, Davidson, NC.

Summa Cum Laude, Overall GPA: 4.00 out of 4.00

Minor in Astrophysics

## Work Experience

2016

**Graduate Research Assistant**, *Computer Science and Engineering*, University of Washington.

Sp 2015

**NSF REU Student**, *Cerro Tololo Inter-American Observatory*, La Serena, Chile.

Developed automated computer vision tools in Python to analyze large image data sets.

2013

2014

**Modeling & Simulation Intern**, *National Geospatial-Intelligence Agency (NGA)*, Department of Defense, Washington, D.C.

Summers 2013 and 2014.

Fall 2012

**Meteor Physics Intern**, *NASA Marshall Space Flight Center*, Huntsville, AL.

Researched the particle size distribution of fragmenting meteors and assisted the NASA Meteoroid Environment Office in building automated meteor detection tools.

## Publications

- [1] Sam Castle, Fahad Pervaiz, Galen Weld, Franziska Roesner, and Richard Anderson. "Let's Talk Money: Evaluating the Security Challenges of Mobile Money in the Developing World". In: ACM Symposium on Computing for Development. DEV '16. Nairobi, Kenya: ACM, Nov. 2016.

## Technical Skills

Languages	C, C++, Java, Python, Perl, MATLAB, Mathematica, Android, Racket	Web	HTML, CSS, JavaScript, PHP
Graduate Coursework	Machine Learning, Security, Formal Verification, Systems, AI	Security	SSL/TLS, PGP, OTR, OpenSSL, Tor, threat modeling, applied crypto, automated analysis, authentication