

Franziska Roesner

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RESEARCH STATEMENT

My research interests are in security and privacy, with a focus on system design and evaluation. I am interested in helping users understand and control the sharing of their data in a broad range of scenarios, from third-party tracking on the web to permission granting for applications in modern operating systems.

EDUCATION

**PhD Student, Computer Science and Engineering
University of Washington**

Area: Security; Advisor: Tadayoshi Kohno

M.S., Computer Science and Engineering **June 2011**
University of Washington

Qualifying Project: *User-Driven Access Control: A New Model for Granting Permissions in Modern Operating Systems*

Advised by: Tadayoshi Kohno and Helen Wang

B.S., Turing Scholars Honors Computer Science **May 2008**
The University of Texas at Austin

Focus: Computer Architecture; Advisor: Doug Burger

B.A., Plan II Honors Program (Liberal Arts) **May 2008**
The University of Texas at Austin

Graduated with Highest Honors.

HONORS

Microsoft Research PhD Fellowship (2012-2014)

Madrona Venture Group Prize Runner-Up (for ShareMeNot) (2011)

National Science Foundation Graduate Research Fellowship (2010-2015)

Marilyn Fries Endowed Regental Fellowship (2009-2010)

UTCS Best Undergraduate Honors Thesis Award (2008)

UT College of Natural Sciences Dean's Honored Graduate (2008)

CRA Outstanding Undergraduate Award Finalist (2008)

University of Texas Unrestricted Endowed Presidential Scholarship (2007-08)

Intel Undergraduate Research Fellowship (2007-2008)

Cisco Systems Computer Science Scholarship (2006)

National Merit Finalist and Scholarship Recipient (2004)

PUBLICATIONS Available for download at <http://www.cs.washington.edu/homes/franzi/>

CONFERENCE **F. Roesner**, T. Kohno, A. Moshchuk, B. Parno, H.J. Wang, and C. Cowan. *User-Driven Access Control: Rethinking Permission Granting in Modern Operating Systems*. To appear in the Proceedings of the 33rd IEEE Symposium on Security and Privacy, May 2012.

F. Roesner, T. Kohno, and D. Wetherall. *Detecting and Defending Against Third-Party Tracking on the Web*. To appear in the Proceedings of the 9th USENIX Symposium on Networked Systems Design and Implementation, April 2012.

S. Checkoway, D. McCoy, B. Kantor, D. Anderson, H. Shacham, S. Savage, K. Koscher, A. Czeskis, **F. Roesner**, and T. Kohno. *Comprehensive Experimental Analyses of Automotive Attack Surfaces*. Proceedings of the 20th USENIX Security Symposium, August 2011.

K. Koscher, A. Czeskis, **F. Roesner**, S. Patel, T. Kohno, S. Checkoway, D. McCoy, B. Kantor, D. Anderson, H. Shacham, S. Savage. *Experimental Security Analysis of A Modern Automobile*. Proceedings of the 31st IEEE Symposium on Security and Privacy, May 2010.

F. Roesner, D. Burger, and S.W. Keckler. *Counting Dependence Predictors*. Proceedings of the 35th International Symposium on Computer Architecture, June 2008.

S. Sethumadhavan, **F. Roesner**, D. Burger, S.W. Keckler and J. Emer. *Late-Binding: Enabling Unordered Load-Store Queues*. Proceedings of the 34th International Symposium on Computer Architecture, June 2007.

TECH REPORT **F. Roesner**, T. Kohno, A. Moshchuk, B. Parno, H.J. Wang, and C. Cowan. *User-Driven Access Control: Rethinking Permission Granting in Modern Operating Systems*. Microsoft Research Tech Report #MSR-TR-2011-91, August 2011.

THESES **F. Roesner**. *User-Driven Access Control: A New Model for Granting Permissions in Modern Operating Systems*. Advised by Tadayoshi Kohno and Helen Wang. University of Washington, CSE Qualifying Examination Project, April 2011.

F. Roesner. *Counting Dependence Predictors*. Advised by Doug Burger. The University of Texas at Austin, Tech Report #HR-08-08 (CS Undergraduate Honors Thesis), May 2008.

Amazon.com (Seattle, WA) **June 2008 – August 2008**
Software Development Engineering Intern

Winn Tutoring (Austin, TX) **May 2005 – May 2008**
Tutor in math, science, and English

SERVICE

New Graduate Orientation Organizer **September 2011**
UW CSE Department
Co-organized and co-led new graduate student orientation.

Roadshow & Outreach **2010 – Present**
UW CSE Department
Co-created and co-led an outreach seminar, organizing graduate and undergrad students to create a presentation and visit local grade schools (2010-2011). Visited multiple local high schools to give presentations about my research, computer science, and/or the UW CSE department (ongoing).

Roadshow Coordinator **2007 – 2008**
UT CS Department
Co-created and co-led a computer science roadshow presentation for local middle and high schools.