

# Ann Kilzer

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## CONTACT INFORMATION

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## EDUCATION

### **University of Texas**, Austin, Texas

- Second year PhD Student in Computer Science
- Advisor: Vitaly Shmatikov
- Research interests in privacy and systems
- Relevant coursework: Theory and Practice of Secure Systems, Wireless Networking, Distributed Computing, Topics in Secure and Distributed Systems, Cryptography (in progress)

### **Gonzaga University**, Spokane, Washington

*B.S. in Computer Science & B.A. in Mathematics and Art.*

- German Minor
- 3.88 GPA on a 4.0 scale

## PROFESSIONAL EXPERIENCE

### **University of Texas**, Austin, Texas

*Research Assistant*

August 2009 – present

- Investigating privacy for systems and genetic computation.

### **Google**, Mountain View, California

*Software Engineering Intern*

May – August 2009

- Developed visualizations for client and server mappings.
- Wrote MapReduce code to gather weekly statistics.

### **University of Texas**, Austin, Texas

*Teaching Assistant*

August 2008 – May 2009

- Intro to Computing with Professor Mike Scott (Fall 2008).
- Operating systems with Dr. Emmett Witchel (Spring 2009).

### **Google**, Mountain View, California

*Platforms Software Engineering Intern*

May – August 2008

- Wrote a firmware update program to download firmware to a device through an MMIO interface and calculate checksums.
- Developed open source tool for displaying Oprofile output as a directory tree.

### **Scalable and Embedded Systems Lab at Gonzaga University**, Spokane, Washington

*Research Assistant*

September 2007 – May 2008

- Project leader for sensor network research.
- Compared PBPI and MrBayes, two parallel programs for Bayesian phylogenetic inference.

### **Scalable Systems Lab at The University of New Mexico**, Albuquerque, New Mexico

*Research Assistant*

June – August 2007

- Worked with graduate student James Horey on a filesystem interface for sensor networks.
- Developed software in C to communicate with and store data on sensors using MANTIS OS.
- Began integrating this software into FUSE (Filesystem in Userspace) to provide a filesystem interface to sensor network.

**Gonzaga University Center for Evolutionary Algorithms**, Spokane, Washington

*Research Assistant*

September 2005 – May 2008

- Enhanced software developed by previous students.
- Trained new student researchers.

**Department of Mathematics at California State University**, San Bernardino, California

*NSF Research Experience for Undergraduates Participant*

July – August 2006

- Investigated graph theory and bandwidth-critical graphs.

PUBLICATIONS  
AND PROJECTS

Roy, I., Setty, S., Kilzer, A., Shmatikov, V., Witchel, E. “Airavat: Security and Privacy for MapReduce.” (In submission) *Proc. 7th Symposium on Networked Systems Design and Implementation*. San Jose, CA: USENIX, April 2010.

Kilzer, A. “Oprofile Kernel Tree Builder.” An open-source script for viewing Oprofile output as a directory tree. <<http://code.google.com/p/oprofile-kernel-tree-builder>>.

Horey, J., Tournier, J., Widener, P., Maccabe, A., Kilzer, A. “A Filesystem Interface for Sensor Networks.” In *Proc. Fifth Workshop on Embedded Networked Sensors (HotEmNets)*, Charlottesville, Virginia: ACM, June 2008.

Ganzerli, S., De Palma, P., Overbay, S., Kilzer, A., Datteri, R., Fitzgerald, S. “Optimizing Resources in Undergraduate Research.” In *2008 Structures Conference*, Vancouver, British Columbia, Canada: April 2008.

PRESENTATIONS

Kilzer, A. (Roy, I., Setty, S., Shmatikov, V., Witchel, E.) “Applying Differential Privacy to Search Queries.” (poster presentation) *SOSP Diversity 2009*. Big Sky, Montana. October 10, 2009.

Kilzer, A., (Horey, J., Tournier, J., Widener, P., Maccabe, A.) “Koseki: A Sensor Network Filesystem.” University of New Mexico, Albuquerque, New Mexico: August 16, 2007.

“Genetic Algorithms and Book Embedding.” (poster presentation) *Engineering Week*, Gonzaga University, Spokane, Washington: February 2007.

Dahmen, K., and Kilzer, A. “Genetic Algorithms for Optimized Book Embedding.” *Spokane-Intercollegiate Research Conference*, Whitworth College, Spokane, Washington: April 7, 2006.

Kilzer, A. “3 and 4 Bandwidth-Critical Graphs.” (lecture and poster presentation) California State University, San Bernardino, California: August 2006.

SKILLS

- Programming: Proficient in C/C++. Experienced in Python, Java, and bash scripting.
- Operating Systems: UNIX/Linux, Mac OS X, Windows XP, MANTIS OS.
- Publishing: L<sup>A</sup>T<sub>E</sub>X, XHTML.
- Other: Speak conversational German.