

# Matthew Lentz

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## Contact

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University of Maryland  
College Park, MD 20742

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## Interests

I am broadly interested in the areas of networking and systems research.

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## Education

**University of Maryland**, College Park, Maryland USA  
Ph.D. in Electrical Engineering, Fall 2012 – Spring 2017 (Expected)  
Advisor: Bobby Bhattacharjee  
Overall GPA: 3.90

**University of Maryland**, College Park, Maryland USA  
M.S. in Electrical Engineering, Fall 2010 –  
*Transitioned into Ph.D. program and switched focus from computer architecture to computer networking and systems research.*

**University of Maryland**, College Park, Maryland USA  
B.S. in Computer Engineering, Fall 2006 – Spring 2010  
Overall GPA: 3.82

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## Refereed Publications

- Drowsy Power Management**  
*Matthew Lentz*, James Litton, Bobby Bhattacharjee  
SOSP 2015 (Symposium on Operating System Principles)
  - Brave New Word: Privacy Risks for Mobile Users**  
Paarijaat Aditya, Bobby Bhattacharjee, Peter Druschel, Viktor Erdelyi, Matthew Lentz (*Alphabetical*)  
SPME 2014 (Workshop on Security and Privacy Aspects of Mobile Environments)
  - SDDR: Light-weight, Secure Mobile Encounters**  
*Matthew Lentz*, Viktor Erdelyi, Paarijaat Aditya, Elaine Shi, Peter Druschel, Bobby Bhattacharjee  
USENIX Security Symposium 2014
  - EnCore: Private, Context-based Communication for Mobile Social Apps**  
Paarijaat Aditya, Viktor Erdelyi, *Matthew Lentz*, Elaine Shi, Bobby Bhattacharjee, Peter Druschel  
MobiSys 2014 (International Conference on Mobile Systems, Applications, and Services)
  - D-Mystifying the D-Root Address Change**  
*Matthew Lentz*, Dave Levin, Jason Castonguay, Neil Spring, and Bobby Bhattacharjee  
IMC 2013 (Internet Measurement Conference) Short Paper
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## Research Experience

**University of Maryland**, College Park, Maryland USA  
*Graduate Research Assistant (Advisor: Bobby Bhattacharjee)*  
Performing research in a variety of areas, including:

**2/2012 – Present**

- Operating system power management
- Privacy-preserving mobile social applications
- DNS root server measurement and analysis
- Cellular network spectrum sharing

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**Teaching Experience**

**CMSC417: Computer Networks**

**Fall 2015**

*Teaching Assistant*

- Designed new course projects to emphasize aspects of high-performance networking (priority-based job scheduler), and usage of analysis tools such as Wireshark (chat protocol reverse engineering).
- Created a Git-based project submission and grading system.

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**Professional Experience**

**Laboratory for Telecommunication Sciences, College Park, Maryland**

**5/2011 – 8/2011**

*Intern - Computer Science Internship Program*

Added support for the LLVM compiler infrastructure to Cray's Chapel parallel programming language compiler, allowing for faster compilation and better optimization control.

**Laboratory for Telecommunication Sciences, College Park, Maryland**

**9/2010 – 5/2011**

*Graduate Research Assistant*

Continuation of my work during the previous summer internship.

**Laboratory for Telecommunication Sciences, College Park, Maryland**

**6/2010 – 8/2010**

*Intern - Computer Science Internship Program*

Developed highly-optimized real-time signal processing software using NVIDIA's CUDA libraries to look for signals in the environment, as well as compute their range and direction of arrival.

**DRS Signal Solutions, Gaithersburg, Maryland**

**6/2009 – 8/2009**

*Intern - Embedded Software Engineering*

Developed a complete signal collection product prototype, implementing features in software running on an embedded radio platform.

**DRS Signal Solutions, Gaithersburg, Maryland**

**6/2008 – 8/2008**

*Intern - Application Software Engineering*

Programmed helper applications for common engineering tasks, and expanded the feature set of GUI applications which interface with the hardware radio platforms.

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**References**

Available upon request.