

**Meghan Clark**  
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## Education

- **University of Michigan - Ann Arbor** Ann Arbor, MI  
*PhD in Computer Science and Engineering* Sept. 2012 - present
  - Dr. Prabal Dutta, advisor
  - Focus on ubiquitous computing and sensor networks
- **George Mason University** Fairfax, VA  
*Bachelor of Science in Computer Science* Aug. 2006 - Jan. 2012
  - Mathematics minor
  - Overall GPA 3.9, major GPA 4.0

## Publications

- **Clark, Meghan**, Bradford Campbell, and Prabal Dutta. “Deltaflow: Submetering by Synthesizing Uncalibrated Pulse Meter Streams.” *The 5th International Conference on Future Energy Systems (ACM e-Energy)*, Cambridge, UK, June 11-13, 2014.
- Bradley, Justin M., **Meghan Clark**, Ella M. Atkins, and Kang G. Shin. “Mission-Aware Cyber-Physical Optimization on a Tabletop Satellite.” *AIAA Infotech@Aerospace (I@A) Conference*, Boston, MA, August 19-22, 2013.
- Kennedy, William G., Tim Gulden, Atesmachew B. Hailegiorgis, Jeffrey Bassett, Mark Coletti, Gabriel C. Balan, **Meghan Clark**, and Claudio Cioffi-Revilla. “An Agent-Based Model of Conflict in East Africa and the Effect of the Privatization of Land.” *Proceedings of the 3rd World Congress on Social Simulation*, Kassel, Germany, September 6-9, 2010.

## Posters/Demos

- **Clark, Meghan**, Bradford Campbell, and Prabal Dutta. “Demonstration Abstract: Submetering by Synthesizing Side-Channel Sensor Streams.” *IPSN’14*, Berlin, Germany, April 15-17, 2014. *To appear*.
- Campbell, Bradford, Sam DeBruin, **Meghan Clark**, and Prabal Dutta. “Demo Abstract: Disaggregating End Loads with Energy-Harvesting Sensors and Cloud Analytics.” *BuildSys’13 Proceedings of the 5th ACM Workshop on Embedded Systems For Energy-Efficient Buildings*, Rome, Italy, August 13-14 2013.

## Talks

- **Mission-Aware Cyber-Physical Optimization on a Tabletop Satellite** AIAA I@A  
*Boston, MA* Aug. 20, 2013
- **Lightning Talk: High-Performance Computing** Michigan Hackers  
*Ann Arbor, MI* Oct. 2, 2012
- **A Comparison of Space-Filling Curves** Summer Research Symposium  
*Rackham Summer Institute* Aug. 7, 2012
- **The College Experience of Women Engineers** Panel, Scholarship Banquet  
*Society of Women Engineers - Baltimore Washington Section* Apr. 9, 2011

## Honors and Awards

- NSF Graduate Research Fellowship, 2014
- Microsoft Graduate Women's Scholarship, 2013-2014 - \$15,000
- Rackham Merit Fellowship, University of Michigan, 2012
- Outstanding Undergraduate, GMU School of Engineering, 2012 - \$500
- Undergraduate Distinguished Academic Achievement, GMU Dept. of Computer Science, 2012
- Armed Forces Communications and Electronics Assoc. (AFCEA) Scholarship, 2010 - 2011 - \$2,000
- Society of Women Engineers (Baltimore-Washington) Endowment Scholarship, 2010 - \$1,500
- GMU Undergraduate Apprenticeship Program, Fall 2009 - \$1,000
- Volgenau School of IT&E ACE Scholar, 2009
- Dean's List, all enrolled semesters
- Honors College and Program in General Education, GMU

## Service

- **Xplore Engineering** University of Michigan  
*Robotics outreach for children of alumni* Volunteer, Aug. 9, 2013
- **Ann Arbor City Council Meets a Raspberry Pi** Ann Arbor City Council  
*Spoke on video surveillance and drone technology privacy issues* Aug. 8, 2013
- **Lurie NanoFab Outreach** University of Michigan  
*Optics outreach for fourth graders* Volunteer, May 28, 2013
- **Lunch and Lab Mentorship Program** University of Michigan  
*Mentorship for undergraduates interested in graduate studies* Mentor, 2013
- **gEECS Mentoring Program** University of Michigan  
*Mentorship for women in EECS* Mentor, 2013
- **Society of Women Engineers (SWE) Mentorship Program** George Mason University  
*Mentorship for women in EECS* Mentor, 2011
- **Society of Women Engineers Panel** SWE - Baltimore Washington Section  
*Panel promoting engineering to high school girls* Panel speaker, Apr. 9, 2011

## Activities

- **Computer Science and Engineering Grad Student Organization** University of Michigan  
*Tea Chair, 2013*
- **American Institute of Aeronautics and Astronautics** AIAA  
*Student Member*
- **IEEE-Computer Society** IEEE  
*Student Member*
- **Association for Computing Machinery** ACM  
*Student Member*
- **ACM Student Chapter/ICPC Programming Team** George Mason University  
*Vice President, 2011*

## Teaching Experience

- **ICOS Big Data Boot Camp** University of Michigan  
*Code Sherpa* *May 20 - 24, 2013*
  - Assisted social scientists learning Python, SQL, and web-scraping techniques. Guided the formulation of research questions for group projects.
- **CS 112: Introduction to Computer Programming** George Mason University  
*Undergraduate Teaching Assistant* *Aug. 25 - Dec. 24, 2010*
  - Assisted undergraduates learning Python on the class discussion board, provided one-on-one guidance, and graded quizzes.
- **CS 101: Preview of Computer Science** George Mason University  
*Undergraduate Teaching Assistant* *Aug. 25 - Dec. 24, 2010*
  - Assisted undergraduates with robotics projects, monitored the class discussion board, and performed and streamlined administrative tasks for large class size.
- **CS 211: Introduction to Object-Oriented Programming.** George Mason University  
*Undergraduate Teaching Assistant* *Aug. 25 - Dec. 24, 2009*
  - Assisted undergraduates learning Java on the class discussion board, provided one-on-one guidance, and graded quizzes.
  - Guest-lectured on advanced special topics during lab sessions.

## Work Experience

- **Oakwood Controls** Fort Belvoir, VA  
*Software Engineer* *Jan. 27, 2012 - Jun. 2013*
  - R&D work for the U.S Army's Night Vision and Electronic Sensors Directorate (NVESD) on communication over sensor networks. Duties ranged from developing protocol specifications to embedded programming to field testing. Languages included C++, Scala, and Erlang.

## Skills

**Proficient in** Java, C, Python, Erlang, Vim, SQL, Linux, Unix, Mac OS X

**Worked with** C++, MPI, Arduino, Gumstix, Scala, Ruby, ANSI Common Lisp, Prolog, MATLAB, R, Maple, Bash, Perl, Oracle, XML, CSS/HTML, Git, Subversion, Mercurial, CVS, Emacs, NetBeans, Eclipse, L<sup>A</sup>T<sub>E</sub>X, MASON (Multi-agent simulation package), ECJ (Evolutionary computation package)

**Foreign Languages:** French, intermediate; Mandarin, beginner

## References

Available on demand.