

# Gradeigh D. Clark

## Curriculum Vitae

### Education

2013

**Doctorate in Computer Engineering**, *Rutgers University*, GPA – 4.0.

Concentration: Usable Security & Privacy, Human-Computer Interaction

Advisor: Janne Lindqvist

2011

2013

**Bachelor of Science in Electrical Engineering**, *Rutgers University*, GPA – 3.95.

Concentration: Optical Electronics, Electromagnetics

2009

2011

**Associates in Engineering Science**, *Middlesex County College*, GPA – 3.94.

Concentration: Electrical Engineering Option, Mechanical Engineering Option

### Publications

- 2015 **Engineering Gesture-Based Authentication Systems**,  
*Gradeigh D. Clark, Janne Lindqvist.*  
IEEE Pervasive Computing – Special Edition: Security & Privacy
- 2014 **User-Generated Free-Form Gestures For Authentication: Security and Memorability**, *Michael Sherman, Gradeigh D. Clark, Yulong Yang, Shridatt Sugrim, Arttu Modig, Janne Lindqvist, Antti Oulasvirta, Teemu Roos.*  
MobiSys 2014 – The 12th International Conference on Mobile Systems.
- 2014 **Challenges in Gesture Recognition for Authentication**,  
*Gradeigh D. Clark, Janne Lindqvist.*  
Communication and Cognition Workshop, CHI 2014 - ACM Conference on Human Factors in Computing Systems.

### Awards & Honors

- 2015-2018 **National Defense Science and Engineering Graduate Fellowship.**
- 2015 **NSF Graduate Research Fellowship - Honorable Mention.**
- 2015 **Ford Foundation Fellowship - Honorable Mention.**
- 2014 **SOUPS Scholarship Award.**  
Awarded to assist in travel to SOUPS 2014.
- 2014 **ECE Teaching Assistant of the Year Award.**
- 2013 **John B. Smith Memorial Prize.**  
Awarded to the ECE senior with the highest graduating GPA.
- 2013 **Georg Goubau Memorial Prize.**  
Awarded for “*excellence in the research of electromagnetic phenomena.*”
- 2009–2013 **NJ Stars Scholarship.**

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- 2012 **Steven Petrucelli Endowed Scholarship.**
- 2011 **Rutgers Academic Excellence Award.**
- 2010 **Thomas A. Edison Engineering & Math Scholarship.**

## Research Experience

2013

**Research Assistant**, HCI GROUP, WINLAB, Rutgers University.

Working on research topics in human-computer interaction, security engineering, cryptocurrencies, and crowdsourcing. Currently researching: the impact of gestures for use in **usable** authentication systems, end-to-end email confidentiality, human factors in cryptocurrency, multitasking with computers, smartphone privacy, and physical-world crowdsourcing.

2013

**Summer Research Intern**, SMART LIGHTING ERC, Rensselaer Polytech.

Obtained and characterized the spectral reflectance of materials for a smart room project. Repurposed the Unity3D game engine into a spectrally aware modeling environment for lighting design and simulation. Obtained greater color fidelity through the use of multiple channels in Unity.

2012

2013

**Research Intern**, NANOPHOTONICS LABORATORY, Rutgers University.

Studied optical alignment, laser measurement, electrical measurement techniques for nanophotonic devices. Researched theory and methods of lens design. Worked on methods for taking images with a Near Field Scanning Optical Microscope.

2012

**Summer Research Intern**, WINLAB, Rutgers University.

Part of a four person team responsible for researching and developing an open source sensor library project for Android devices as well as an Android graphical user interface application called "SensorAdventure" to act as a testing bed for the library.

## Service and Community

### Professional Memberships

- SIGCHI Special Interest Group for Computer-Human Interaction
- IEEE Institute of Electrical and Electronics Engineers, Inc.

### External Reviewer

- 2014/15 SOUPS: The Symposium On Usable Privacy and Security
- 2015 MobiSys: International Conference on Mobile Systems, Applications, and Services
- 2014/15 PerCom: IEEE Conference on Pervasive Computing and Communications
- 2015 CHI: ACM Conference on Human Factors in Computing Systems
- 2014 NordiCHI: Nordic Conference on Human-Computer Interaction
- 2014 IEEE Transactions on Mobile Computing

## Teaching

- Fall 2014 **Teaching Assistant**, ECE 361 - *Electronic Devices*, Rutgers University.
- Spring 2014 **Teaching Assistant**, ECE 366 - *Digital Electronics*, Rutgers University.
- Fall 2013 **Teaching Assistant**, ECE 361 - *Electronic Devices*, Rutgers University.

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