

Jess Hohenstein

www.jesshohenstein.com

407 East Seneca St, Ithaca, NY 14850
518 727 4086
jch378@cornell.edu

Education

Doctor of Philosophy August 2017 - present
Cornell University, Ithaca, NY
Major: Information Science
Concentration: Human Computer Interaction

Master of Science August 2014 – May 2016
Cornell University, Ithaca, NY
Major: Mechanical Engineering
Concentration: Fluid Mechanics
Thesis title: “Development of a Compact Optical Rapid Diagnostic Test Reader and a Point-of-Care Fluorescence Lateral Flow Assay for Dengue Detection”

Bachelor of Science, Summa Cum Laude September 2010 – May 2014
Northeastern University, Boston, MA
Major: Mechanical Engineering
Minor: Mathematics

Research Experience

Robots in Groups Lab – Cornell University November 2016 – present
Investigating and building emotional regulation support in AI-assisted communication.

Interaction Design Lab – Cornell University August 2016 – present
Tidbit: Employed iterative design process to create a standalone device for imaging lateral flow assays with verified usability.
NutriPhone: Tested various feedback displays for self-gathered medical results to explore and enhance user understanding.

Mozilla March 2017 – September 2017
Designed and performed studies to measure user perceived performance of previous and updated Mozilla Firefox browsers.
Designed and performed a study that verified the short-term positive effect of priming on user perceived performance of Mozilla Firefox over Google Chrome.

Erickson Lab – Cornell University August 2014 – May 2016
Tidbit: Led a team to design and build standalone device for imaging lateral flow assays.
NutriPhone: Designed and built mobile app that instructs user through testing process, processes images taken through app, saves user information to internal database, displays result to user. Verified usability of and examined the way that people interact with the app.
FeverPhone: Initiated development of fluorescent lateral flow assay for dengue diagnosis.

Professional Experience

- Web Design/Development** – Coldwell Banker, Niskayuna, NY March 2013 – May 2013
Designed and built website with HTML/CSS and Javascript.
- Mechanical Engineering Consultant** – Jola Venture, Cameroon January 2013 – March 2013
Created detailed test plan for bucket design analysis of Solpod (solar food dehydrator). Tested materials for heat flow optimization for Solpod and analyzed results.
- Software Engineer** – GE Intelligent Platforms, Albany, NY January 2012 – June 2012
Added Copy/Paste Animations and Copy/Paste Variables features (useable via GUI and object model) to CimEdit portion of Proficy CIMPLICITY and performed automated testing. Performed iPad and iPod Touch application testing for Proficy HMI/SCADA. Tested import/export abilities via .xml and .csv files and determined automated testing capabilities for Proficy Workflow.

Publications

- Jess Hohenstein**, Eric P.S. Baumer, Lindsay Reynolds, Elizabeth L. Murnane, Dakota O’Dell, Seoho Lee, Shion Guha, Yu Qi, Erin Rieger, Phil Adams, and Geri Gay. “Supporting Accurate Interpretation of Self-Administered Medical Test Results for Mobile Health: The Importance of Design, Demographics, and Health Condition”. *JMIR Human Factors* (forthcoming).
- Jess Hohenstein**, Dakota O’Dell, Elizabeth L. Murnane, Zhengda Lu, David Erickson, and Geri Gay. 2017. “Enhancing the Usability of an Optical Reader System to Support Point-of-Care Rapid Diagnostic Testing: An Iterative Design Approach”. *JMIR Human Factors* 4(4).
- Jess Hohenstein**, Hani Khan, Kramer Canfield, Sam Tung, and Rocio Perez Cano. 2016. “Shorter Wait Times: The Effects of Various Loading Screens on Perceived Performance”. *CHI '16 Extended Abstracts*.
- Jess Hohenstein**. 2016. “Development of a Compact Optical Rapid Diagnostic Test Reader and a Point-of-Care Fluorescence Lateral Flow Assay for Dengue Detection”. *Cornell Theses and Dissertations*.
- Seoho Lee, Dakota O’Dell, **Jess Hohenstein**, Susannah Colt, Saurabh Mehta, and David Erickson. 2016. “NutriPhone: smartphone platform for vitamin B12 quantification in point-of-care settings”. *Scientific Reports*.

Technical Skills

- Programming:** C++, Python, MatLab, HTML/CSS, Objective C, Java; some Javascript, Visual Basic, C#.
- Applications:** AutoCAD, Dreamweaver, Photoshop, Illustrator, LabVIEW, Microsoft Office, Blender, Android Studio, Xcode, R Studio, Quickbooks.
- Laboratory:** Antibody/antigen assays, calorimetric assays, centrifugation, electron microscopy, fluorescent antibody test, oscilloscopes, protein purification, pulse amplification and detection, spectrophotometry, soldering.

Teaching Experience

Information Ethics, Law, and Policy – Cornell University
Teams and Technology – Cornell University
Mechanical Properties and Performance Lab – Cornell University

January 2018 – May 2018
August 2017 – December 2017
January 2016 – May 2016

Achievements

Graduate Diversity Fellowship – Cornell University
Presidential Global Scholarship – Northeastern University
Tau Beta Pi Member – Northeastern University
Amelia Peabody Scholarship – Northeastern University
Zonta International Young Women in Public Affairs Award
Girl Scout Gold Award, “Hope for Domestic Violence Victims in Guatemala”

August 2014
January 2013
April 2013
January 2011
May 2010
June 2009

Interests

Photography (multiple awards and publications) and photo manipulation, volunteering as a ‘Feline Friend’ at Tompkins County SPCA, travel, graphic art/design, hiking, managing my eBay business (\$17k total sales), piano, crafts.