

Elliott B. Hedman

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For an interactive resume, please visit hedmanresume.blogspot.com

Education

Massachusetts Institute of Technology

Doctoral Degree in Media Arts and Sciences • Advisor: Dr. Rosalind Picard

Graduation: May 2014 (Expected)

Masters Degree in Media Arts and Sciences • Advisor: Dr. Rosalind Picard

G.P.A. 4.7 • Graduation: May 2014

University of Colorado at Boulder

Bachelors Degree in Electrical Computer Engineering

G.P.A. 3.82/4 • Graduation: May 2008 • Graduated Top in Major • Minor in Leadership

Publications:

Hedman, E. "In-Situ Measurement of Electrodermal Activity During Occupational Therapy"; in the Extended Abstract of Society of Psychophysiology Conference 2010, Portland, OR, USA, Sept. 29-Oct. 3.

Hedman, E., Poh, M.Z., Wilder-Smith, O., Fletcher, R., Goodwin, M.S., Picard, R. "iCalm: Measuring Electrodermal Activity in Almost Any Setting" in the Extended Abstract of ACII, 2009, Amsterdam, The Netherlands, September 10-12, 2009.

Hedman, E., Eckhardt, M., Poh, M.Z., Goodwin, M.S., Miller, L.J., Brett-Green, B., Schoen, S.A., Nielsen, D.M., and Picard, R.W., "Heart Rate Variability and Electrodermal Activity in Children with Atypical Sensory Processing: Exploratory Pattern Analysis" in the Extended Abstract of IMFAR 2009, Chicago, Illinois, USA, May 7-9, 2009.

Fletcher, R., Dobson, K., Goodwin, M., Eydgahi, H., Wilder-Smith, O., Fernholz, O., Kuboyama, Y., Hedman, E., Poh, M., Picard, R. iCalm: Wearable Sensor and Network Architecture for Wirelessly Communicating and Logging Autonomic Activity. IEEE. Transactions on Information Technology in Biomedicine.

Presentations:

Keynote Speaker for the SPD Foundation 9th International Symposium. "Taking Away the Guesswork: Objective Measurement of Internal State During Occupational Therapy". Oct. 8-10, 2009. Chicago.

Keynote Speaker for Bank of America, Customer Service Summit. "Understanding Emotions to Improve Service". February 3, 2009. Charlotte, North Carolina

Speaker for Bank of America, Customer Service Summit. "Using Emotions to improve service". February 3, 2009. Charlotte, North Carolina

Research Projects

Using Physiological Signals to Qualify Experiences

(Summer 2010 - Present)

-Faculty Advisers: Cecilia Weckstrom, Dr. Rosalind Picard

-Worked with the LEGO Group to create new method for experience research

-Measured the electrodermal activity of 50 people and interviewed them on their experiences

-Currently analyzing differences in interview techniques - Open vs. Using Electrodermal Activity

Measuring Electrodermal Activity during Occupational Therapy (2009-Present)

- Faculty Advisers: Dr. Rosalind Picard, Dr. Lucy J. Miller
- Measured 100 hours of electrodermal activity from children while in occupational therapy
- Annotated children's behavior and interventions being used
- Further developed hardware and software for iCalm -Electrodermal Activity sensors
- Managed 5 undergraduate research assistants

Measuring and Preventing Stress at a Bank of America Phone Center (2009-2010)

- Faculty Adviser: Dr. Rosalind Picard
- Looked at innovative ways of reducing stress for call center employees
- Measured Electrodermal Activity as a marker of stress within call centers

Reliable Feedback at the Judge Baker Clinical Center (Fall 2009-Present)

- Faculty Advisers: Dr. John Weisz, Dr. Rosalind Picard
- Provided technological consulting for new clinical feedback infrastructure
- Applied ideas of Motivating Technologies by BJ Fogg
- Created a new, motivating interface to encourage parents to fill out weekly information

Teaching Experience

Class designer and co-teacher for Behavioral Research Methods and Statistics (Spring 2010)

- Faculty Adviser: Dr. Rosalind Picard
- Class taught Media Lab students the fundamentals of experimental design
- Class focused on personal application and critical thinking of existent research

Founder of Self Awareness Club (Spring 2009)

- Club analyzed how technology can help people become more aware
- 50 people on member list in first year
- Each week different people presented their ideas

Mentor for Undergraduate Research Assistants (Fall 2009-Present)

- Mentored 8 research assistants while a Masters Student at MIT
- Over the summer I managed 5 part time assistants in conducting my Masters Thesis
- Students come from a variety of backgrounds: psychology, art, management, and engineering

Teaching Assistant for 1810 Leadership and Ethics (Fall 2007)

Teaching Assistant for 2830 Leadership and Community (Spring 2008)

- Faculty Adviser: Dr. Ty Tashiro
- Designed curriculum and lesson plan for ten of CU's top students
- Helped students develop critical thinking and teamwork skills
- Taught students how to do peer-reviewed research
- Taught students how to analyze for correlation, direction, and third variables

Learning Assistant for Intro to C Programming for Engineers (Fall 2005)

- Faculty Adviser: Dr. Dirk Grunwald
- Worked one on one with students who needed additional help with programming concepts
- Taught programming concepts, including recursive functions, object oriented programming, etc.

Work with Companies

Research Assistant for the LEGO Consumer Experience Group

(Summer 2010)

- Designed and Ran experiment to measure customer experiences
- Conducted an open interview and interviewed people about their EDA
- Generated a paper describing 17 key insights about the LEGO experience
- Worked with designers, writers, and administration to conduct project
- Taught group how to use tools in the future

Graduate Resident Tutor at Bexley Hall

(Fall 2009-Present)

- Live with the undergraduates and offer assistance and guidance

Hasbro- Game Interface Design

(Summer 2007)

- Helped develop a Flash interface for the new Goblin Game from Hasbro
- Collaborated with various groups- R&D, Servers, Art Department, Technical Development

IBM Leadership Internship

(Spring 2006)

- Worked with IBM Workgroup Printers to develop a new leadership strategy
- Interviewed leaders throughout organization- Vice President, Fellows, etc.
- Developed a strategy to realign bonus program

Honors and Awards

Winner of the Bank of America ATM of the Future design competition

(January 2009)

- Created a new ATM that encouraged community by including local's art and fortunes on receipts

Finalist for Social Business and Microeconomic Opportunities for Youth

(Spring 2008)

- Developed a business model to repair medical equipment in Africa through training.