Jay Henderson

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Education

PhD in Computer Science (Human-Computer Interaction), 2016 - Present.

University of Waterloo, Waterloo, ON.

Honours:
David R. Cheriton Graduate Scholarship, 2017 - 2018.
Awarded by the director of the Cheriton School of Computer Science and an appointed committee based on academic excellence.

BSc Hons. in Computer Science, 2012 - 2016.

Mount Allison University, Sackville, NB.
Honours degree in Computer Science with minors in Mathematics and Psychology.

Publications

1. **Jay Henderson**, Jeff Avery, Laurent Grisoni, and Edward Lank. 2019. Leveraging Distal Vibrotactile Feedback for Target Acquisition. To appear at ACM CHI 2019 Conference on Human Factors in Computing Systems. Glasgow.
2. **Jay Henderson**, Shaishav Siddhpuria, Keiko Katsuragawa, and Edward Lank. 2017. Fostering large display engagement through playful interactions. In Proceedings of the 6th ACM International Symposium on Pervasive Displays (PerDis '17). ACM, New York, NY, USA, Article 20, 8 pages. DOI: 10.1145/3078810.3078818
3. Mohamed Khamis, **Jay Henderson**, and Guiying Du. 2017. Title: PerDis 2017. IEEE Pervasive Computing 16, no. 4: 86-89. DOI: 10.1109/MPRV.2017.3971126
4. **J. Henderson**. 2016. Evaluations of the Connect Course Registration System Across Mobile and Desktop Interfaces. (Bachelor's Thesis).

Research and Work Experience

Research Internship, Fall 2018.

Huawei Technologies Canada, Markham, ON.

Noah's Ark Lab, Human-Computer Interaction team.
Supervised by Dr. Wei Li.

Research Assistant, 2016 - Present.

Cheriton School of Computer Science, University of Waterloo, Waterloo, ON.

Human-Computer Interaction Lab.
Supervised by Dr. Edward Lank.

Focus on interactive displays, wearable interaction, haptics and expert user interfaces.

Research Internship, Summer 2017.

University of Lille Sci. & Tech, CNRS, INRIA, Lille, France.

MINT Lab.
Supervised by Dr. Laurent Grisoni and Dr. Edward Lank.

Focus on interactions using distal vibrotactile feedback (Published at CHI 2019).

Software Developer, Summer 2016.

MYSA Smart Thermostat Systems, St. John's, NL.

Primary responsibilities included developing the web user interface for a smart home thermostat. Other responsibilities included embedded system development, database implementation and connecting the front end (UI) to the back end.

Teaching Assistant / **Instructional Apprentice**, 2015 - Present.

University of Waterloo, Waterloo, ON. & Mount Allison University, Sackville, NB,

Responsibilities include conducting tutorials, instructing labs, marking, preparing course materials and holding office hours to consult with students.

Undergraduate Researcher, 2015 - 2016.

Mount Allison University, Sackville, NB.

Honours Research in Human-Computer Interaction.
Supervised by Dr. Andrew Hamilton-Wright.

Focus on evaluating the user experience using a course registration system.

Skills

Technical:

Java, Android, C, Python, Go, JavaScript, HTML, CSS, MYSQL and R.

Semi-technical:

SPSS, UI/UX Design, Microsoft Office, Videography and Social Media.

Personal Attributes:

Strong communication/teamwork skills.

Driven to work independently.

Adaptable and quick to learn.

Public speaking skills.

Volunteering

CHI Student Volunteer, 2017.

Student volunteer at the 2017 CHI Conference on Human Factors in Computing Systems (CHI 2017) in Denver, Colorado.

Peer Reviewer, 2017.

Reviewer for KSII Transactions on Internet and Information Systems.

S.M.I.L.E. Buddy, 2014 - 2016.

The Sensory Motor Instructional Leadership Experience program consists of recreational activities on Saturday mornings paired with a child who has special needs. The goal is to provide one-on-one support in order to facilitate skill development.

Global Brigades Student Volunteer, 2014 - 2015.

Global Brigades is an international non-profit that uniquely implements a holistic model to meet a community's health and economic goals. The program included traveling to rural Honduras to engage in manual labor with local community members, in a mutual learning experience, to foster future sustainability.

Youth Computer Science Workshop Instructor, 2014.

Instructed fun introductory programming tasks to elementary school-aged children using MIT's Scratch development environment.

Extra Curricular

Athletics, 2003 - Present.

Hockey: played on provincial teams, AAA, varsity high school and prep school. Currently a recreational player.

Rugby: played varsity high school and for the Mount Allison University team.

Musician/Composer, 1999 - Present.

Trained in piano and guitar. Recording artist on Mount Allison University's Conduct Becoming Album.

Duke of Edinburgh Award Program, 2009 - 2012.