

JAY HENDERSON

JAY [DOT] HENDERSON [AT] UWATERLOO.CA | JAYHENDERSON.CA | NATIONALITY: CANADIAN

EDUCATION

PhD in Computer Science (Human-Computer Interaction)

University of Waterloo

Sept 2016 – Present

Waterloo, ON, Canada

- Supervised by Professor Edward Lank.
- Focusing on gestural interactions.

BSc Hons. in Computer Science, Minors in Mathematics and Psychology

Mount Allison University

Sept 2012 – May 2016

Sackville, NB, Canada

EXPERIENCE

Research Intern

Chatham Labs (Now Facebook Reality Labs)

Dec 2019 – May 2020

Toronto, ON, Canada

- Led a research project on evaluating interaction techniques in virtual reality.
- Supervised by Dr. Ben Lafreniere.
- Project is currently under review.

Research Intern

Huawei Technologies Canada

Sept 2018 – Jan 2019

Markham, ON, Canada

- Led a research project on mid-air gesture guidance through touch interaction.
- Supervised by Dr. Sachi Mizobuchi and Dr. Wei Li.
- This internship resulted in publication at MobileHCI 2019 [P3]

Research Intern

University of Lille / Inria

May 2017 – Aug 2017

Lille, France

- Led a research project on vibrotactile feedback provided by a smartwatch.
- Supervised by Professor Edward Lank and Professor Laurent Grisoni.
- This internship resulted in publication at CHI 2019 [P4].

Software Engineer

MYSA Smart Thermostats

May 2016 – Sept 2016

St. John's, NL, Canada

- Primary responsibilities included development and design of the web user interface for a smart home thermostat. Other responsibilities included embedded system development and database implementation.

Undergraduate Research Assitant

Mount Allison University

May 2015 – May 2016

Sackville, NB, Canada

- Conducted an honours research project on evaluating the user experience of course registration systems.
- Supervised by Professor Andrew Hamilton-Wright.

Teaching Assistant/Instructional Apprentice

Mount Allison University / University of Waterloo

Jan 2015 – Present

Sackville, NB, Canada / Waterloo, ON, Canada

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

AWARDS

David R. Cheriton Graduate Scholarship

University of Waterloo

2017 – 2019

Waterloo, ON, Canada

- Awarded by the director of the Cheriton School of Computer Science and an appointed committee based on academic excellence. Valued at \$10,000 annually.

Math Domestic Graduate Student Award

University of Waterloo

2016 – Present

Waterloo, ON, Canada

- Awarded to incoming Canadian graduate students. Valued at \$6,000 annually.

PEER REVIEWED PUBLICATIONS

- [P1] **Jay Henderson**, Jessy Ceha, and Edward Lank. 2020. *STAT: Subtle Typing Around the Thigh for Head-Mounted Displays*. In 22nd International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '20). Association for Computing Machinery, New York, NY, USA, Article 27, 1–11. DOI: 10.1145/3379503.3403549
- [P2] **Jay Henderson**, Sylvain Malacria, Mathieu Nancel, and Edward Lank. 2020. *Investigating The Necessity Of Delay In Marking Menu Invocation*. In Proceedings of CHI Conference on Human Factors in Computing Systems (CHI '20), Apr 25–30, 2020, Honolulu, HI USA. Association for Computing Machinery, New York, NY, USA, 1–13. DOI: 10.1145/3313831.3376296
- [P3] **Jay Henderson**, Sachi Mizobuchi, Wei Li, and Edward Lank. 2019. *Exploring Cross-Modal Training via Touch to Learn a Mid-Air Marking Menu Gesture Set*. In Proceedings of the 21st International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '19). Association for Computing Machinery, New York, NY, USA, Article 8, 1–9. DOI: 10.1145/3338286.3340119
- [P4] **Jay Henderson**, Jeff Avery, Laurent Grisoni, and Edward Lank. 2019. *Leveraging Distal Vibrotactile Feedback for Target Acquisition*. In Proceedings of CHI Conference on Human Factors in Computing Systems (CHI '19), May 4–9, 2019, Glasgow, Scotland UK. ACM, New York, NY, USA 11 Pages. DOI: 10.1145/3290605.3300715
- [P5] **Jay Henderson**, Shaishav Siddhuria, 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). Association for Computing Machinery, New York, NY, USA, Article 20, 1–8. DOI: 10.1145/3078810.3078818

NON-PEER REVIEWED PUBLICATIONS

- [N1] Mohamed Khamis, **J. Henderson**, and Guiying Du. 2017. Title: PerDis 2017. IEEE Pervasive Computing 16, no. 4: 86–89. DOI: 10.1109/MPRV.2017.3971126
- [N2] **J. Henderson**. 2016. Evaluations of the Connect Course Registration System Across Mobile and Desktop Interfaces. (Bachelor's Thesis).

TECHNICAL SKILLS

Languages: Java, Python, C#, JavaScript, HTML/CSS, R

Developer Tools: Git, Unity, Android Studio, IntelliJ, Eclipse, Jupyter Notebook

Libraries: pandas, NumPy, Matplotlib, OpenCV, LeapMotion

Other: Experimental Design, User Studies, SPSS, UI/UX Design, Microsoft Office, Videography and Graphic Design

SERVICE

Peer Reviewer 2017 – Present

ACM SIGCHI Conferences (CHI, MobileHCI, and Automotive UI), IJHCI, KSII TIS

ACM Name Change Committee 2019

Association for Computing Machinery

- Served on a committee that developed an overarching name change policy within all ACM publications. Chosen, alongside several other researchers who publish within the ACM, that are transgender and/or gender non-conforming (GNC), for whom the policy will particularly impact.

CHI Conference Allyship Program May 2019

ACM SIGCHI *Glasgow, Scotland*

- Served as a point of contact for attendees about equity manners. Selected for past experiences in equity-related activities.

CHI Conference Student Volunteer May 2017

ACM SIGCHI *Denver, CO, USA*

S.M.I.L.E. Buddy Sept 2014 - May 2016

Mount Allison University / Cumberland YMCA *Amherst, NS, Canada*

- A recreational program offered every Saturday morning, where I was paired with a child who may otherwise not be able to participate in typical programs of the like due to their unique developmental needs.