

JESSICA IP

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RESEARCH INTERESTS

My research interests lie in HCI, information visualization, perceptual processing, and human-centered technology.

EDUCATION

University of British Columbia

B.A. in Cognitive Systems: Cognition and the Brain

B.Sc. in Computer Science and Statistics

Vancouver, Canada

2015 – 2020

RESEARCH/WORK EXPERIENCE

Visual Cognition Lab, University of British Columbia

Project Leader and Research Assistant under the supervision of Prof. Ronald A. Rensink.

Led the Correlation project for five research terms examining the human perception of correlation in data visualizations (e.g., strip plots) with applied research methods from psychophysics.

Mentored undergraduate students, facilitated weekly project meetings, research workshops and talks.

Vancouver, Canada

2016-09 – Present

Sensory Perception and Interaction Research Group, University of British Columbia

Research Assistant under the supervision of Prof. Karon E. MacLean and Dr. Hasti Seifi.

In a collaboration between SPIN and MPI-IS faculty and researchers, my senior thesis involved designing Tableau visualizations for the initial prototype of the haptic device web tool *Haptipedia* and conducting ten semi-structured interviews with novice and expert hapticians to understand the workflow of haptic device creator and application design. This work resulted in a CHI publication. In Jan 2019, I was awarded an NSERC USRA to co-lead a crowdsourcing study on Haptipedia.

Vancouver, Canada

2018-01 – Present

Laboratory for Computational Intelligence, University of British Columbia

Research Assistant under the supervision of Prof. Giuseppe Carenini and Emily Hindalong.

Designed a usability test for the ValueCharts web application and integrated instructions into the web application to guide a user through the workflow.

Vancouver, Canada

2017-09 – 2018-04

Emerging Media Lab, University of British Columbia

Academic Assistant under Saeed Dyanatkar.

Created and facilitated Virtual Reality and Brain-Computer Interface demos and workshops (Virtual Reality Night – VR and BCI, Development for Google Cardboard Workshop, and Development for WebVR Workshop).

Vancouver, Canada

2017-11 – 2018-04

PEER-REVIEWED PUBLICATIONS

[1] Seifi, H., Fazlollahi, F., Oppermann, M., Sastrillo, J. A., Ip, J., Agrawal, A., Park, G., Kuchenbecker, K. J., MacLean, K. E. Haptipedia: Accelerating Haptic Device Discovery to Support Interaction & Engineering Design. *In Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), Glasgow, Scotland, May 2019.*

TEACHING EXPERIENCE

University of British Columbia

Undergraduate Teaching Assistant – COGS 303: Research in Cognitive Systems

Graded all written work, including final critique papers for 39 undergraduate students.

Hosted weekly office hours and exam review sessions.

Vancouver, Canada

2018-09 – 2018-12

WORKSHOPS AND DEMOS

- [1] Seifi, H., **Ip, J.**, Agrawal, A., Kuchenbecker, K.J., MacLean, K.E. 2019. Toward Expert-sourcing of a Haptic Device Repository. In Proceedings of ACM Conference (CHI'19). ACM, Glasgow, Scotland, England, 4 pages.

PRESENTATIONS AND POSTERS

- [2] **Ip, J.**, Pertels, Y., Chai, W., Thongprasert, S. Image Transitions: Visual Search in the Dynamic World. Presented at the Psychology Undergraduate Research Conference, April 2017.

- [1] “Image Transitions: Visual Search in the Dynamic World.” Multidisciplinary Undergraduate Research Conference. Vancouver, Canada, March 28, 2017.

AWARDS

Undergraduate Student Research Award, NSERC

2019