JESSICA IP

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EDUCATION

University of British Columbia (UBC) Vancouver, CAN
B.A. in Cognitive Systems: Cognition and the Brain 09/2015 – 05/2020
Senior Project: *An Interactive Haptic Device Visualization Tool for Device Creators and Repurposers*
Advisor: Prof. Karon E. MacLean

RESEARCH AND WORK EXPERIENCE

Visual Cognition Lab, UBC Vancouver, CAN
Project Leader and Research Assistant with Prof. Ronald A. Rensink 09/2016 – Present
Investigating the human perception of correlation in data visualizations with applied research methods from psychophysics.
Topics: Information Visualization, Perceptual Processing, Psychophysics, Vision Science

Sensory Perception and Interaction Research Group, UBC Vancouver, CAN
Research Assistant with Prof. Karon E. MacLean and Dr. Hasti Seifi 01/2018 – Present
Conducted a qualitative study on the design workflows of novice and expert haptic device creators, and application designers. This work resulted in a CHI '19 publication. In 01/2019, I was awarded an NSERC USRA to co-lead a crowdsourcing study on Haptipedia.
Topics: Human-Computer Interaction, Qualitative Analysis, Haptics

Laboratory for Computational Intelligence, UBC Vancouver, CAN
Research Assistant with Prof. Giuseppe Carenini and Emily Hindalong 09/2017 – 04/2018
Designed a usability test for the ValueCharts web application and integrated instructions into the web application to guide a user through the workflow.
Topics: Web-based Interactive Visualizations, Decision-Making

Emerging Media Lab, UBC Vancouver, CAN
Academic Assistant with Saeed Dyanatkar 11/2017 – 04/2018
Created and facilitated Virtual Reality and Brain-Computer Interface demos and workshops.
Technology: Virtual Reality (HTC Vive™), Brain-Computer Interface (Muse™ Headband), Google Cardboard, WebVR, Unity3D, Blender

TEACHING EXPERIENCE

Teaching Assistant, University of British Columbia Vancouver, CAN
COGS 303: Research Methods in Cognitive Systems 09/2018 – 12/2018
Graded weekly written assignments and final critique papers for

39 undergraduate students. Hosted exam review sessions and weekly office hours.

Directed Studies Supervisor, University of British Columbia Vancouver, CAN
COGS 402: Research in Cognitive Systems 01/2020 – 04/2020
Supervised Nicholas Chin at the UBC Visual Cognition Lab for his senior undergraduate project.

PUBLICATIONS

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.*

NON-REFEREED PUBLICATIONS

[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.

POSTER PRESENTATIONS AND TALKS

POSTER PRESENTATIONS

[2] **Ip, J.**, Tembo, T., Seifi, H., Fazlollahi, F., Oppermann, M., Sastrillo, J. A., Agrawal, A., Park, G., Kuchenbecker, K. J., MacLean, K. M. (2019). "Haptipedia: A Haptic Device Library to Support Interaction and Engineering Design." DFP Design Showcase 2019. Vancouver, Canada.

[1] **Ip, J.**, Pertels, Y., Chai, W., Thongprasert, S. (2017). "Image Transitions: Visual Search in the Dynamic World." UBC Multidisciplinary Undergraduate Research Conference. Vancouver, Canada.

TALKS

[1] **Ip, J.**, Pertels, Y., Chai, W., Thongprasert, S. (2017). Image Transitions: Visual Search in the Dynamic World. Oral presentation at the UBC Psychology Undergraduate Research Conference. Vancouver, Canada.

RESEARCH GRANTS

Undergraduate Student Research Award, NSERC 2019