

JESSICA IP

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RESEARCH INTERESTS

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

EDUCATION

University of British Columbia	Vancouver, Canada
B.A. in Cognitive Systems: Cognition and the Brain	09/2015 – 05/2020
B.Sc. in Computer Science and Statistics	

RESEARCH AND WORK EXPERIENCE

Visual Cognition Lab, University of British Columbia	Vancouver, Canada
Project Leader and Research Assistant with Prof. Ronald A. Rensink.	09/2016 – Present
Investigating the human perception of correlation in data visualizations (e.g., strip plots) with applied research methods from psychophysics.	
<i>Topics:</i> Information Visualization, Perceptual Processing, Psychophysics, Vision Science	

Sensory Perception and Interaction Research Group, University of British Columbia	Vancouver, Canada
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.	
<i>Topics:</i> Human-Computer Interaction, Qualitative Thematic Analysis, Haptics	

Laboratory for Computational Intelligence, University of British Columbia	Vancouver, Canada
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.	
<i>Topics:</i> Web-based Interactive Visualizations, Decision-Making	

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

TEACHING EXPERIENCE

University of British Columbia	Vancouver, Canada
Undergraduate Teaching Assistant – COGS 303: Research in Cognitive Systems.	09/2018 – 12/2018
Graded all written work, including final critique papers for 39 undergraduate students.	
Hosted weekly office hours and exam review sessions.	

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.

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