

# JESSICA IP

jessicaip@alumni.ubc.ca | [www.jessicaip.ca](http://www.jessicaip.ca)

## RESEARCH INTERESTS

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

## EDUCATION

<b>University of British Columbia</b>	Vancouver, Canada
B.A. in Cognitive Systems: Cognition and the Brain	09/2015 – 05/2020
Thesis: <i>An Interactive Haptic Device Visualization Tool for Device Creators and Repurposers</i> . Grade: A	
Advisor: Prof. Karon E. MacLean	
B.Sc. in Computer Science and Statistics	

## RESEARCH AND WORK EXPERIENCE

<b>Visual Cognition Lab, University of British Columbia</b>	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	

<b>Sensory Perception and Interaction Research Group, University of British Columbia</b>	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	

<b>Laboratory for Computational Intelligence, University of British Columbia</b>	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	

<b>Emerging Media Lab, University of British Columbia</b>	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

<b>University of British Columbia</b>	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