

# Lotus Zhang

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## EDUCATION

### UNIVERSITY OF BRITISH COLUMBIA B.A. IN COMPUTER SCIENCE AND PSYCHOLOGY

Expected May 2019 | Vancouver, BC

## COURSEWORK

Advanced Methods for HCI  
Analysis of Behavioural Data  
Software Engineering  
Computer Graphics  
Machine Learning  
Algorithmic Design and Analysis

#### Graduate Level Course:

Computer Animation

#### Directed Study:

Human Robot Interaction Design

## SKILLS

### PROGRAMMING

Java  
Javascript  
CSS & HTML  
iOS & Android  
Processing  
OpenGL  
Unity3D  
Julia

### DESIGN

Adobe Suite  
Axure RP  
Invision  
Sketch

### PROTOTYPING

Rapid Prototyping  
Arduino  
3D Printing

### RESEARCH

Interviews  
Surveys  
Affinity Diagrams  
SPSS & R

## EXPERIENCE

### RESEARCH INTERN | INFORMATION INTERACTION LAB

Jun 2018 – Sept 2018 | University of Michigan, Ann Arbor MI

- Studied mixed reality usability methodology with [Professor Michael Nebeling](#)
- Polished the code base of the interaction analysis toolkit
- Conducted instrumentation experiments with open source MR applications
- Ran interviews with domain experts during the requirements collection phase with a team

### RESEARCH ASSISTANT | SENSORY PERCEPTION INTERACTION LAB

Oct 2016 – Apr 2018 | University of British Columbia, Vancouver BC

- Worked with [Professor Karon MacLean](#) on emotion-regulating robots
- Applied algorithmic approaches to render emotion on 1-DOF robots through the sense of touch
- Designed 50 unique robot behaviors with diverse emotion displays
- Evaluated users' perception on robot prototype through interview and survey

### UX DEVELOPER | AXKA GROUP INC

Jan 2016 – Apr 2016 | Richmond, BC

- Designed, wireframed, and implemented two mobile applications for online retail services

### TEACHING ASSISTANT

Sept 2017 – Apr 2018 | University of British Columbia, Vancouver BC

- CPSC 344 - Introduction to HCI Methods
- CPSC 314 - Computer Graphics

## COMMUNITY SERVICE

### UNDERGRADUATE RESEARCH OPPORTUNITIES

Apr 2017 – Apr 2019 | University of British Columbia, Vancouver BC

Led the design and prototype of a web application for undergraduate students to get involved in academic research

## PUBLICATIONS

P. Bucci, [L.Zhang](#), L.Cang & K.MacLean. "Is it Happy? Behavioural and Narrative Frame Complexity Impact Perceptions of a Simple Furry Robot's Emotions." (Accepted to CHI 2018)

[L.Zhang](#), P.Bucci, L.Cang & K.MacLean. "Infusing CuddleBits with Emotion: Build your Own and Tell Us About it." (Accepted to CHI 2018 Extended Abstract)

M.Nebeling, M.Speicher, B.D.Hall, L.Ramsier & [L.Zhang](#). "MRAT: The Mixed Reality Analytics Toolkit" (Submitted to CHI 2019)

## AWARDS

- 2017 John Alexander McDonald Scholarship in Humanities
- 2017 UBC Computer Science Student Service Award
- 2014 UBC Outstanding International Student Award