

Jessy Ceha

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Education

University of Waterloo, Waterloo, Canada

Ph.D. Computer Science: Human-Computer Interaction

2017 - 2021

Honors:

- ▶ Provost Doctoral Entrance Award for Women, September 2017
[Awarded by the Faculty of Mathematics to outstanding female PhD students on a competitive basis]
- ▶ University of Waterloo Entrance Scholarship, September 2017

University of Groningen, Groningen, The Netherlands

M.Sc. Human-Machine Communication, *cum laude*

2014 - 2016

Honors:

- ▶ Avril McDonald Prize, August 2016
[Awarded each year to 3 or 4 female Master students, based on excellence]

Thesis:

“Investigation into the Enhancement of Voice Perception: with simulations of cochlear implants and bimodal hearing”

Key Courses:

- ▶ Robotics
- ▶ Multivariate Models
- ▶ Cognitive Engineering & Modelling
- ▶ User Models
- ▶ Computational Discourse
- ▶ Neuro-Ergonomics
- ▶ User Interface Evaluation
- ▶ Formal Models of Cognition

Honours Master - High Tech Systems And Materials

2014 - 2016

1.5 year program worth 20 ECTS followed in addition to the standard master's

- ▶ Attended weekly masterclasses and worked in a multidisciplinary team to produce an innovative product for Philips Consumer Lifestyle

University of British Columbia, Vancouver, Canada

B.Sc. Cognitive Systems: Cognition & Brain, *with Distinction*

2010 - 2014

Honors:

- ▶ Dean's Honor List, April 2014

Key Courses:

- ▶ Understanding and Designing Cognitive Systems (COGS 300)
- ▶ Software Construction (CPSC 210)
- ▶ Cognitive Neuroscience (PSYC 365)

B.A. Co-ordinated Arts Program: Philosophy, Political Science, and Economics 2009 - 2010

Research & Work Experience

- Graduate Research Assistant** Sept. 2017 -
David R. Cheriton School of Computer Science, University of Waterloo
Human-Computer Interaction Lab - Dr. Edith Law (co-supervisor: Dr. Dana Kulic)
‣ Investigating curiosity & meta-cognition using educational social robots
- Teaching Assistant (TA)** May 2018 -
David R. Cheriton School of Computer Science, University of Waterloo
CS 349 - User Interfaces
‣ Hold office hours and mark assignments and exams
- Instructional Apprentice (IA)** Sept. 2017 - April 2018
David R. Cheriton School of Computer Science, University of Waterloo
CS 105 & CS 106 - Introduction to Computer Programming 1 & 2
‣ Conducted tutorials, provided assistance in labs, held office hours, marked exams
- Graduate Research Assistant** May 2016 - July 2016
Department of Otorhinolaryngology (Audiology), University Medical Centre Groningen
Speech Perception Lab - Dr. Deniz Başkent (co-supervisor: Dr. Marieke van Vugt)
‣ Conducted psychoacoustic experiments
- Study has been published
- Graduate Research Assistant** Oct. 2015 - May 2016
Department of Experimental Psychology, University of Groningen
Belief, Perception, and Cognition Lab - Dr. Jacob Jolij (co-supervisors: Dr. Deniz Başkent & Dr. Marieke van Vugt)
‣ Developed and tested an electroencephalography (EEG) based neurofeedback system
- Graduate Research Assistant** April 2015 - Dec. 2015
Institute of Artificial Intelligence and Cognitive Engineering, University of Groningen
Cognitive Modelling Group - Dr. Marieke van Vugt
‣ EEG study on theta oscillation phase-locking after attentional blink (AB) training
- Intern** June 2015 - July 2015
Philips Consumer Lifestyle
‣ Honours Master: manufactured, tested and finalised a product for Philips
- Graduate Research Assistant** Jan. 2014 - May 2014
Department of Linguistics, University of British Columbia
The “eh” Lab - Dr. Martina Wiltschko
‣ Behavioural study on the syntax of speech acts

Volunteering

Dave and Jan Jaworsky's Girls in STEAM event <i>Role model</i>	Jan. 2018
Women in Computer Science (WiCS) - Waterloo, Canada <i>Mentor to undergraduate CS students</i>	Nov. 2017
Best Buddies - Waterloo, Canada <i>Weekly volunteering with individuals with developmental or intellectual disabilities</i>	Oct. 2017 -
Learning Buddies Network - Vancouver, Canada <i>Elementary school math tutor</i>	Jan. 2014 - April 2014
Camp of Champions Snowboard & Ski Camp - Whistler, Canada <i>Supervisor and coordinator</i>	June 2012 - July 2012

Skills & Experience

Programming and Statistics

- Matlab, Python, HTML, CSS, Java, R, SPSS

Electroencephalography (EEG)

- Writing experiment code, signal processing, data collection and statistical analysis

Psychoacoustic Experiments

- Conducting, designing, analyzing

Eye Tracking

- Developed, built, and pilot tested interruption management system based on pupil dilation

Cognitive Modelling

- Built model based on Adaptive Control of Thought-Rational (ACT-R) cognitive architecture

Independent and Group Based Research

- Different research groups & departments, interacting with research participants

Presentations

- *Theta-band phase locking after attentional blink training*. Poster presentation at the 15th NVP Winter Conference on Cognition, Brain, and Behaviour. Egmond aan Zee, the Netherlands. December 2015
- *Product Proposal*. Presentation at Philips Consumer Lifestyle, Drachten, the Netherlands. May 2015

Human-Computer Interaction

- Developed interface supporting students choosing electives on university website
- Conducted user interface evaluations for Roompot Vakanties (roompot.nl)

Research on Innovative Product Design and Development (Honours Master)

- Multidisciplinary design, electrical engineering, and embedded systems
- Co-created and assembled electromyography powered, 3D-printed robotic hand

Social Robotics

Co-designing & User Studies

Leadership and Teamwork

- Lead and mentored multidisciplinary team on aspects of computer science (as part of Honours Master)
- Gave lectures to peers on current research in a number of fields within computer science
- Trained undergraduate student in EEG experiment setup and execution (as part of Master's thesis)
- Math tutor for elementary school children

Personal Attributes

- Hard-working and dependable
- Strong desire to learn and be challenged
- Both independent and a team worker
- Adaptable and a problem-solver

Nationalities

Canadian
Dutch

Languages

Native English
Dutch
School-level German