

Jessy Ceha

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Education

University of Waterloo, Waterloo, Canada

Ph.D. Computer Science

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

[Department of Artificial Intelligence]

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:

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|-------------------------------------|------------------------------|
| ▸ Robotics | ▸ Computational Discourse |
| ▸ Multivariate Models | ▸ Neuro-Ergonomics |
| ▸ Cognitive Engineering & Modelling | ▸ User Interface Evaluation |
| ▸ User Models | ▸ 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)
- Introduction to Software Engineering (CPSC 310)
- Cognitive Neuroscience (PSYC 365)
- Introduction to Human Computer Interaction Methods (CPSC 344)

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 in the interaction between users and robots

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 submitted for publication

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

Women in Computer Science (WiCS) - Waterloo, Canada

Nov. 2017

Mentor to undergraduate CS students

Best Buddies - Waterloo, Canada

Oct. 2017 -

Weekly volunteering with individuals with developmental or intellectual disabilities

Learning Buddies Network - Vancouver, Canada

Jan. 2014 - April 2014

Elementary school math tutor

Camp of Champions Snowboard & Ski Camp - Whistler, Canada

June 2012 - July 2012

Supervisor and coordinator

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)**
 - Planned, organized, executed, coordinated, managed, directed, and worked in a team
 - Multidisciplinary design, electrical engineering, and embedded systems
 - Co-created and assembled electromyography powered, 3D printed, robotic hand

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 team worker
- Adaptable and a problem-solver

Nationalities

Canadian
Dutch

Languages

Native English
Dutch
School-level German