# 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, c*um 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**                                   Jan. 2018
*Role model*
**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)**

‣ 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