

# 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:**

- ▶ 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)
- ▶ 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*

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## 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
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## 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*

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## 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

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## 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

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### 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