

# Jessy Ceha

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## Education

### Ph.D. COMPUTER SCIENCE

Sept. 2017 -

UNIVERSITY OF WATERLOO, WATERLOO, CANADA

#### Honors:

- Provost Doctoral Entrance Award for Women, December 2016  
[Awarded by the Faculty of Mathematics to outstanding female PhD students on a competitive basis]
- University of Waterloo Entrance Scholarship, December 2016

### M.Sc. HUMAN-MACHINE COMMUNICATION, *cum laude*

2014 - 2016

UNIVERSITY OF GRONINGEN, GRONINGEN, THE NETHERLANDS

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:

- Formal Models of Cognition
- Cognitive Engineering
- User Models
- Robotics
- Cognitive Modelling
- Neuro-Ergonomics
- User Interface Evaluation
- Semantic Web Technology

### **Honours Master HIGH TECH SYSTEMS AND MATERIALS**

2014 - 2016

UNIVERSITY OF GRONINGEN, GRONINGEN, THE NETHERLANDS

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

- Provided by the University of Groningen's Honours College, Philips Consumer Lifestyle and the University of Twente

### B.Sc. COGNITIVE SYSTEMS: COGNITION & BRAIN, *with Distinction* 2010 - 2014

THE UNIVERSITY OF BRITISH COLUMBIA (UBC), VANCOUVER, CANADA

#### 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: PPE** 2009 - 2010  
THE UNIVERSITY OF BRITISH COLUMBIA (UBC), VANCOUVER, CANADA  
[PPE: Philosophy, Political Science, and Economics]

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**A-Levels Mathematics, Economics, Environmental Science** 2007 - 2009  
THE BRITISH SCHOOL OF THE NETHERLANDS, THE NETHERLANDS

**International Baccalaureate Middle Years Program** 2006 - 2007  
THE INTERNATIONAL SCHOOL OF THE HAGUE, THE NETHERLANDS

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## Research & Work Experience

**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 experiment on voice perception with cochlear implant (CI) and hearing aid simulations
  - Results show a bimodal hearing benefit which is limited to fundamental frequency perception
  - Study is currently being written up for publication

**GRADUATE RESEARCH ASSISTANT** October 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 pilot tested an electroencephalography (EEG) based neurofeedback system for improving speech perception in CI users
  - Results indicate a necessity for further research on event-related potentials, specifically the P300 waveform, elicited by non-word, vocoded speech stimuli

**GRADUATE RESEARCH ASSISTANT** April 2015 - December 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
  - After training away the AB, no significant increase found in theta oscillation phase-locking

**INTERN** June 2015 - July 2015

**Philips Consumer Lifestyle**

- Honours Master: manufactured, tested and finalised a product for Philips

**GRADUATE RESEARCH ASSISTANT** January 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

**Math Tutor** - *Elementary School children*

January 2014 - April 2014

Learning Buddies Network, Vancouver, Canada

**Supervisor and Coordinator**

June 2012 - July 2012

The Camp of Champions Summer Snowboard & Ski Camp, Whistler, Canada

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## Skills & Experience

- ***Programming and Statistics***

- Matlab, Python, Java, R, SPSS

- ***Electroencephalography (EEG)***

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

- Systems: BioSemi Active-Two, 10-20 & Software: FieldTrip, EEGLab, OpenViBE, Matlab

- ***Psychoacoustic Experiments***

- Conducting, designing, analyzing

- ***Eye Tracking***

- Built an interruption management system based on pupil dilation

- ***Cognitive Modelling***

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

- ***Independent and Group Based Research***

- Different research groups & faculties

- Interacting with research participants (EEG and behavioural studies)

- ***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

- ***Human-Computer Interaction***

- Developed interface supporting students choosing electives on university website

- ***EEG Neurofeedback***

- Part of master thesis involved building an EEG neurofeedback system

- ***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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## 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  
School-level French

\*Open to learning new languages and improving others!