

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 Modelling |
| ▸ Cognitive Engineering | ▸ Neuro-Ergonomics |
| ▸ User Models | ▸ User Interface Evaluation |
| ▸ Robotics | ▸ 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]

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

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

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

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

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!