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, c*um 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

The 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 September 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 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 tested an electroencephalography (EEG) based neurofeedback system

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

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, 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 & faculties, 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
School-level French