JESSY CEHA · CV

CONTACT
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CITIZENSHIP Canadian, Dutch
LANGUAGES English, Dutch

SUMMARY

Highly adaptable and motivated, with research experience in both academia and industry, spanning various areas, countries, and departments. Adept at conducting in-person research in labs, medical centers, and in-the-wild. Knowledge of neuroscience & human-computer interaction methods, human physiology measurement, and behavioural & psychometric testing. Passionate about interdisciplinary research, especially psychology, neuroscience, and computer science.

EDUCATION

Ph.D. Computer Science 2017 - present
University of Waterloo, Waterloo, ON, Canada
Specialization: Human-Computer Interaction
Advisor: Dr. Edith Law (School of Computer Science)
Thesis Focus: *Pedagogical Agents*

M.Sc. Human-Machine Communication, *cum laude* 2014 - 2016
University of Groningen, Groningen, the Netherlands
Advisor: Dr. Marieke van Vugt (Institute of AI & Cognitive Engineering)
Thesis: *Investigation into the Enhancement of Voice Perception: with simulations of cochlear implants and bimodal hearing*

B.Sc. Cognitive Systems, *with Distinction* 2009 - 2014
University of British Columbia, Vancouver, BC, Canada
Specialization: Cognition & Brain

RESEARCH

Pedagogical Agents 2017 - present
Human-Computer Interaction Lab, University of Waterloo
- Designing pedagogical agents for social scaffolding of learning and affective outcomes
- Investigating neural correlates of curiosity using EEG

Speech Perception 2015 - 2016
Dept. of Audiology, University Medical Centre Groningen
- Psychoacoustic experiments with simulations of bimodal hearing
- Developed an EEG BCI for improving auditory speech perception in cochlear-implant users

Cognitive Modelling 2014 - 2016
Institute of AI and Cognitive Engineering, University of Groningen
- EEG study on theta oscillation phase-locking after attentional blink (AB) training

Linguistics 2014
The "eh" Lab, Dept. of Linguistics, University of British Columbia
- Behavioural study on the syntax of speech acts

Experience

Teaching & Instructional Assistant 2017 - 2018
University of Waterloo
CS105: Introduction to Computer Programming, CS106: Introduction to Computer Science, CS349: User Interfaces

Honours Master in High Tech Systems & Materials (HTSM) 2014 - 2016
University of Groningen
A 20-ECTS, 1.5 year program, followed alongside the regular Master's, offered by The University of Groningen in cooperation with Philips and other major industry partners, equips students with the knowledge and skills needed to excel at the frontiers of High Tech Systems and Materials.

Philips Internship (Consumer Electronics) 2015
On site at the Philips production center in Drachten, the Netherlands
As part of the HTSM Honours Master: manufactured, tested and finalized a solution to a technical challenge presented by Philips Consumer Lifestyle.

Skills

MATLAB, Python, HTML, CSS, Processing, OpenViBE, R, Arduino, ROS

Lab & Field Studies with adults and children

Voice Assistants (Amazon Alexa) & NAO robot

Eye-Tracking/Pupil Dilation

Product Design & Development (PCB basics; 3D printing)

Electroencephalography (EEG), Electromyography (EMG) & Brain-Computer Interfaces (BCIs)

Academic Contributions

Ceha, J., Chibberr, N., Goh, J., McDonald, C., Oudeyer, P-Y., Kulic, D., and Law, E. (2019). Expression of Curiosity in Social Robots: Design, Perception, and Effects on Behaviour. In *CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019) May 4-9, 2019, Glasgow, Scotland, UK.* ACM, New York, NY, USA, 12 pages.

Baskent, D., Luckmann, A., **Ceha, J.**, Gaudrain, E., and Tamati, T. N. (2018). The discrimination of voice cues in simulations of bimodal electro-acoustic cochlear-implant hearing. *The Journal of the Acoustical Society of America, 143(4)*, pages 292-297.

Ceha, J. (2016). Investigation into the Enhancement of Voice Perception: with simulations of cochlear implants and bimodal hearing. (Master's thesis)

Theta-band phase locking after attentional blink training. **Ceha, J.**, Buwalda, T., Taatgen, N., Borst, J., and van Vugt, M. December 2015. Poster presentation at the 15th NVP Winter Conference on Cognition, Brain, and Behaviour. The Netherlands.

Honours and Awards

Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarship-Doctoral (PGS D)	May 2019
University of Waterloo President's Graduate Scholarship (PGS)	May 2019
University of Waterloo Provost Doctoral Entrance Award for Women	Sept. 2017
University of Waterloo Entrance Scholarship	Sept. 2017
Avril McDonald Prize	August 2016

Volunteering

Peer Reviewer for CHI Conference 2019&2020 — Nov. 2018&2019
Reviewed 3 manuscripts

Student volunteer (SV), Glasgow, Scotland, U.K. — May 2019
SV at the 2019 CHI Conference on Human Factors in Computing Systems

Volunteer Educational Assistant, Kitchener, Canada — Feb. - April 2019
Prueter Public School

Shad Canada, Waterloo, Canada — July 2018
A STEAM and entrepreneurship program for students in grades 10 and 11 — Led a 3-day workshop on Human-Robot Interaction

GIRLsmarts4tech, Waterloo, Canada — June 2018
Day-long workshops aimed at inspiring girls to explore technology

Best Buddies, Waterloo, Canada — Oct. 2017 - May 2018
Weekly volunteering with individuals with developmental or intellectual disabilities

Girls in STEAM event, Waterloo, Canada — Jan. 2018
Role model for elementary & middle school girls

Women in Computer Science (WiCS) Event, Waterloo, Canada — Nov. 2017
Mentor to undergraduate CS students

Learning Buddies Network, Vancouver, Canada — Jan. - April 2014
Elementary school math tutor