

JESSY CEHA · CV

CONTACT INFORMATION

jceha@uwaterloo.ca
5195806977

CITIZENSHIP LANGUAGES

Canadian, Dutch
English, Dutch

EDUCATION

University of Waterloo, Waterloo, ON, Canada

Ph.D. in Computer Science: Human-Computer Interaction, Sept. 2017 - present

Advisors: Edith Law (CS) and Dana Kulic (ECE)

Thesis Proposal: *Curiosity-Driven Learning*

Key Courses: Experimental Design (STAT830), Empirical Software Evolution (CS846),
Human-AI Interaction (CS889), Experimental Methods in HCI (CS889)

University of Groningen, Groningen, the Netherlands

M.Sc. in Human-Machine Communication, *cum laude*, 2014 - 2016

Advisor: Marieke van Vugt (Institute of AI & Cognitive Engineering)

Thesis: *Investigation into the Enhancement of Voice Perception: with simulations of cochlear implants and bimodal hearing*

Key Courses: Auditory and Visual Perception, User Models, Cognitive Modeling, Neuro-Ergonomics, Computational Discourse, Semantic Web Technology

Honours Master in High Tech Systems and Materials, 2014 - 2016

A 1.5 year program, followed in addition to the standard Master's, culminating in a research internship at Philips

University of British Columbia, Vancouver, BC, Canada

B.Sc. in Cognitive Systems: Cognition & Brain, *with Distinction*, 2009 - 2014

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

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.

Law, E., **Ceha, J.**, Kulic, D., Oudeyer P-Y., and Roy, D. (2019). Participatory design for identifying the roles of robots in learning activities. In preparation.

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. M. (2016). Investigation into the Enhancement of Voice Perception: with simulations of cochlear implants and bimodal hearing. (Masters 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.

SKILLS AND
EXPERIENCE

- Teaching & Instructional Assistant (University of Waterloo 2017-2018: CS105, 106, 349)
- Matlab, Python, HTML, CSS, Processing, OpenViBE, R, Arduino
- User Studies
- Voice Assistants (Amazon Alexa)/NAO robot
- Eye-Tracking/Pupil Dilation & Cognitive Modelling
- Electroencephalography (EEG), Electromyography (EMG) & Brain-Computer Interfaces
- Product Design & Development (consumer electronics at Philips)

RESEARCH

Teachable Robot Project, Human-Computer Interaction Lab, University of Waterloo
2017 - present

- Curiosity-driven learning with educational social robots
- Co-designing educational robot peers with teachers
- Neural correlates of curiosity using EEG

Speech Perception, Dept. of Audiology, University Medical Centre Groningen
2015 - 2016

- Psychoacoustic experiments with simulations of bimodal cochlear-implant hearing
- Developed an EEG Brain-Computer Interface for improving auditory speech perception in cochlear-implant users

Cognitive Modelling, Institute of AI and Cognitive Engineering, University of Groningen
2014 - 2016

- EEG study on theta oscillation phase-locking after attentional blink (AB) training

The “eh” Lab, Dept. of Linguistics, University of British Columbia
2014

- Behavioural study on the syntax of speech acts

OUTREACH

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

Peer Reviewer for CHI Conference, 2018
Reviewed full-length (10 page) manuscript

SHAD, Waterloo, Canada, July 2018
Led a 3-day workshop on Human-Robot Interaction for an annual Canadian summer enrichment program for high-achieving high school students

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