

## JESSY CEHA · CV

CONTACT  
INFORMATION

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<http://jessyceha.com>

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|-------------|-----------------|
| CITIZENSHIP | Canadian, Dutch |
| LANGUAGES   | English, Dutch  |

SUMMARY      Highly adaptable and motivated, with research experience in both academic and industry settings, spanning numerous areas, countries, and departments. Passionate about interdisciplinary research, especially psychology, neuroscience, and computer science.

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| EDUCATION | <b>Ph.D. Computer Science</b><br>University of Waterloo, Waterloo, ON, Canada | 2017 - present |
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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 &amp; Brain

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|----------|---|----------------|
| RESEARCH | <b>Pedagogical Agents</b><br>Human-Computer Interaction Lab, University of Waterloo | 2017 - present |
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- 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 cochlear-implant 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

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|------------------------|---|---|
| EXPERIENCE             | <b>Teaching &amp; Instructional Assistant</b>   | 2017 - 2018   |
|                        | University of Waterloo<br>CS105: Introduction to Computer Programming, CS106: Introduction to Computer Science, CS349: User Interfaces  |   |
|                        | <b>Honours Master</b> in High Tech Systems & Materials (HTSM)<br>University of Groningen<br>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.  | 2014 - 2016   |
|                        | <b>Philips Internship</b> (Consumer Electronics)<br>On site at the Philips production center in Drachten, the Netherlands<br>As part of the HTSM Honours Master: manufactured, tested and finalized a solution to a technical challenge presented by Philips Consumer Lifestyle.  | 2015  |
| SKILLS                 | MATLAB, Python, HTML, CSS, Processing, OpenViBE, R, Arduino, ROS<br>Lab & Field Studies with adults and children<br>Voice Assistants (Amazon Alexa) & NAO robot<br>Eye-Tracking/Pupil Dilation<br>Product Design & Development (PCB basics; 3D printing)<br>Electroencephalography (EEG), Electromyography (EMG) & Brain-Computer Interfaces (BCIs)   |   |
| ACADEMIC CONTRIBUTIONS | <b>Ceha, J.</b> , 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 <i>CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019) May 4-9, 2019, Glasgow, Scotland, UK</i> . ACM, New York, NY, USA, 12 pages.<br><br>Baskent, D., Luckmann, A., <b>Ceha, J.</b> , Gaudrain, E., and Tamati, T. N. (2018). The discrimination of voice cues in simulations of bimodal electro-acoustic cochlear-implant hearing. <i>The Journal of the Acoustical Society of America</i> , 143(4), pages 292-297.<br><br><b>Ceha, J.</b> (2016). Investigation into the Enhancement of Voice Perception: with simulations of cochlear implants and bimodal hearing. (Master's thesis)<br><br><i>Theta-band phase locking after attentional blink training.</i> <b>Ceha, J.</b> , 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)<br>University of Waterloo President's Graduate Scholarship (PGS)<br>University of Waterloo Provost Doctoral Entrance Award for Women<br>University of Waterloo Entrance Scholarship<br>Avril McDonald Prize   | May 2019<br>May 2019<br>Sept. 2017<br>Sept. 2017<br>August 2016 |

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| VOLUNTEERING | Peer Reviewer for CHI Conference 2019&2020<br>Reviewed 3 manuscripts   | Nov. 2018&2019       |
|              | Student volunteer (SV), Glasgow, Scotland, U.K.<br>SV at the 2019 CHI Conference on Human Factors in Computing Systems                                   | May 2019             |
|              | Volunteer Educational Assistant, Kitchener, Canada<br>Prueter Public School  | Feb. - April 2019    |
|              | Shad Canada, Waterloo, Canada<br>A STEAM and entrepreneurship program for students in grades 10 and 11 — Led a 3-day workshop on Human-Robot Interaction | July 2018            |
|              | GIRLsmarts4tech, Waterloo, Canada<br>Day-long workshops aimed at inspiring girls to explore technology   | June 2018            |
|              | Best Buddies, Waterloo, Canada<br>Weekly volunteering with individuals with developmental or intellectual disabilities                                   | Oct. 2017 - May 2018 |
|              | Girls in STEAM event, Waterloo, Canada<br>Role model for elementary & middle school girls  | Jan. 2018            |
|              | Women in Computer Science (WiCS) Event, Waterloo, Canada<br>Mentor to undergraduate CS students  | Nov. 2017            |
|              | Learning Buddies Network, Vancouver, Canada<br>Elementary school math tutor  | Jan. - April 2014    |