

JESSY CEHA · CV

CONTACT	jceha@uwaterloo.ca +1-519-580-6977 http://jessyceha.com	
CITIZENSHIP	Canadian, Dutch	
LANGUAGES	English (native), Dutch (full professional)	
EDUCATION	Ph.D. Computer Science University of Waterloo, ON, Canada Specialization: Human-Computer Interaction (HCI) Advisor: Dr. Edith Law (School of Computer Science) Thesis Focus: <i>Interaction Strategies for Pedagogical Conversational Agents</i>	2017 - present
	M.Sc. Human-Machine Communication, cum laude University of Groningen, the Netherlands Specialization: Cognitive Engineering Advisor: Dr. Marieke van Vugt (Institute of A.I. & Cognitive Engineering) Thesis: <i>Investigation into the Enhancement of Voice Perception: with simulations of cochlear implants and bimodal hearing</i>	2014 - 2016
	Honours Master High Tech Systems & Materials University of Groningen, the Netherlands A 1.5 year program followed alongside the regular Master's	2014 - 2016
	B.Sc. Cognitive Systems, with Distinction University of British Columbia, BC, Canada Specialization: Cognition & Brain	2009 - 2014
ACADEMIC CONTRIBUTIONS	<p>Ceha, J., Law, E., Kulic, D., Oudeyer, P-Y., and Roy, D. (2021). Identifying Functions and Behaviours of Social Robots during Learning Activities: Teachers' Perspective. [under review at <i>Intl. Journal of Social Robotics</i>]</p> <p>Ceha, J., Lee, K. J., Nilsen, L., Goh, J., and Law, E. (2021). Can a Humorous Conversational Agent Enhance Learning Experience and Outcomes? To appear in <i>CHI Conf. on Human Factors in Computing Systems (CHI '21)</i>. ACM, New York, NY, USA, 20 pages.</p> <p>Appriou, A., Ceha, J., Pramij, S., Dutartre, D., Law, E., Oudeyer, P-Y., and Lotte, F. (2020). Towards measuring states of epistemic curiosity through electroencephalographic signals. In <i>Proc. IEEE Intl. Conf. on Systems, Man, and Cybernetics (IEEE SMC 2020)</i>.</p> <p>Henderson, J., Ceha, J., and Lank, E. (2020). STAT: Subtle Typing Around the Thigh for Head-Mounted Displays. In <i>Proc. 22nd Intl. Conf. on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '20)</i>.</p> <p>Law, E., Ravari, P. B., Chhibber, N., Kulic, D., Lin, S., Pantasdo, K. D., Ceha, J., Suh, S., and Dillen, N. (2020). Curiosity Notebook: A Platform for Learning by Teaching Conversational Agents. In <i>CHI '20 Extended Abstracts</i>.</p> <p>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 <i>CHI Conf. on Human Factors in Computing Systems Proceedings (CHI '19)</i>. ACM, New York, NY, USA, 12 pages.</p> <p>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. <i>The Journal of the Acoustical Society of America</i>, 143(4), pages 292-297.</p>	

RESEARCH	Pedagogical Agents/Social Robots HCI Lab, University of Waterloo <ul style="list-style-type: none"> Enhancing learning outcomes with social A.I. agents 	2017 - present
	Speech Perception with Cochlear Implants Dept. of Audiology, University Medical Centre Groningen <ul style="list-style-type: none"> Psychoacoustic experiments with simulations of bimodal hearing 	2015 - 2016
	Dept. of Experimental Psychology, University of Groningen <ul style="list-style-type: none"> EEG neurofeedback system for improving auditory speech perception 	
ACADEMIC EXPERIENCE	Cognitive and User Modelling Institute of A.I. and Cognitive Engineering, University of Groningen <ul style="list-style-type: none"> EEG study on theta oscillation phase-locking after attentional blink (AB) training Modeled human time perception using Adaptive Control of Thought-Rational (ACT-R) cognitive architecture Pupil dilation based interruption management system 	2014 - 2016
	Programming and Statistics MATLAB, Python, HTML, CSS, Processing, OpenViBE, R, Arduino, ROS	
	User Research Lab & field studies with adults and children Designing and conducting interviews, focus groups, questionnaires/surveys Human physiology measurement <ul style="list-style-type: none"> Eye-Tracking/Pupil Dilation EEG, Electromyography (EMG) & Brain-Computer Interfaces (BCIs) Transcription of audio and video data Analysis of quantitative and qualitative data	
	Teaching TA & IA: CS 105,106,349,449, University of Waterloo	2017 - present
	Volunteer Educational Assistant, Prueter Public School, Kitchener	Feb. - April 2019
	Led a multi-day workshop on Human-Robot Interaction at Shad Canada, Waterloo	July 2018
	Instructor for UX design and research at GIRLsmarts4tech, Waterloo	June 2018
INDUSTRY EXPERIENCE	Research Internship, Philips, Drachten, the Netherlands <ul style="list-style-type: none"> As part of the <i>Honours Master</i>, conducted research on a technical challenge presented by Philips Consumer Lifestyle PCB basics; 3D printing; user studies 	2014 - 2016
HONOURS AND AWARDS	Natural Sciences and Engineering Research Council of Canada (NSERC) Postgraduate Scholarship-Doctoral (PGS D) <i>Awarded to high-calibre scholars who are engaged in an eligible doctoral program in the natural sciences or engineering on a competitive basis (\$42,000 CAD)</i>	May 2019
	University of Waterloo President's Graduate Scholarship (PGS) <i>Provided to outstanding graduate students who hold certain major federally and provincially funded competition-based scholarships (\$10,000 CAD annually)</i>	May 2019
	University of Waterloo Provost Doctoral Entrance Award for Women <i>Awarded by the Faculty of Mathematics to outstanding female PhD students on a competitive basis (\$5,000 CAD)</i>	Sept. 2017
	Avril McDonald Award <i>Awarded by the Rosalind Franklin Fellows of the University of Groningen on a competitive basis each year to 3-4 students to encourage promising female scientists to pursue an academic career (1,000 EUR)</i>	Aug. 2016