

Chen Cecilia Liu

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Research Interests	Multilinguality, Generalization, Multimodality, Emotion, Pragmatics
Education	<p>TU Darmstadt Darmstadt, Germany ELLIS PhD in Computer Sciences 2021 – Present Supervisor: Prof. Iryna Gurevych (TU Darmstadt) Prof. Anna Korhonen (University of Cambridge)</p> <p>University of Toronto Toronto, Canada Master of Applied Science, Electrical Engineering 2011 – 2013 Thesis: Probabilistic Siamese Networks for Learning Representations Supervisor: Prof. Brendan Frey</p> <p>University of Toronto Toronto, Canada Bachelor of Applied Science, Mechanical Engineering 2006 – 2010</p>
Selected Publications	<p>[8] Chen Liu, Fajri Koto, Timothy Baldwin, and Iryna Gurevych. Are Multilingual LLMs Culturally-Diverse Reasoners? An Investigation into Multicultural Proverbs and Sayings. NAACL-HLT (to appear), 2024.</p> <p>[7] Chen Liu, Jonas Pfeiffer, Ivan Vulić, and Iryna Gurevych. Improving Generalization of Adapter-Based Cross-lingual Transfer with Scheduled Unfreezing. NAACL-HLT (to appear), 2024.</p> <p>[6] Chen Liu, Jonas Pfeiffer, Anna Korhonen, Ivan Vulić, and Iryna Gurevych. Delving Deeper into Cross-lingual Visual Question Answering. EACL - <i>Findings</i>, 2023.</p> <p>[5] Gregor Geigle, Chen Liu, Jonas Pfeiffer, and Iryna Gurevych. One does not fit all! On the Complementarity of Vision Encoders for Vision and Language Tasks. RepL4NLP@ACL, 2023.</p> <p>[4] Chen Liu[*], Gregor Geigle[*], Robin Krebs, and Iryna Gurevych. FigMemes: A Dataset for Figurative Language Identification in Politically-Opinionated Memes. EMNLP, 2022.</p> <p>[3] Amir Ganiev, Colton Chapin, Anderson De Andrade, and Chen Liu. An Architecture for Accelerated Large-Scale Inference of Transformer-Based Language Models. NAACL - <i>Industry Track</i>, 2021.</p> <p>[2] Chen Liu, Anderson De Andrade, and Muhammad Osama. 2019. Exploring Multilingual Syntactic Sentence Representations. W-NUT@EMNLP, 2019.</p> <p>[1] Chen Liu, Muhammad Osama, and Anderson De Andrade. DENS: A Dataset for Multi-class Emotion Analysis. EMNLP, 2019.</p>
Honors & Scholarships	<p>NSERC Undergraduate Summer Research Scholarship 2009</p> <p>NSERC Undergraduate Summer Research Scholarship 2008</p>

	General Motor of Women in Electrical and Mechanical Engineering Award, University of Toronto	2006-2009
	Mechanical and Industrial Engineering Admission Scholarship, University of Toronto	2006
	Faculty of Applied Sciences and Engineering Admission Scholarship, University of Toronto	2006
Services & Talks	Reviewer for NeurIPs/ICLR/ICML	2023 - Present
	Reviewer for *CL venues, ACL Rolling Reviews	2019 - Present
	Toronto Women in Data Conference, Mentor	2019
	Toronto Women in Data Science Conference, Invited Talk	2019
	Vector Institute Endless Summer School, Invited Talk	2018
	Google Go North Conference, Mentor	2017
	Graduate Student Union Student Representative	2012-2013
Teaching Experience	Electrical Fundamentals, Tutorial, University of Toronto	2011
	Fundamentals of Computer Programming, Lab, University of Toronto	2010
	Grade 12 Physics, William International College	2007
	Grade 12 Chemistry, William International College	2007
Industry Experience	Wattpad, (acquired by NAVER)	Toronto, Canada
	<i>Staff Product & Research Data Scientist</i>	Oct 2020 - Dec 2020
	<i>Senior Product & Research Data Scientist Tech Lead</i>	May 2017 – Oct 2020
	1. Research emotion classification in narrative stories using BERT and knowledge graph representations. 2. Investigate text representations through a seq2seq model applied to multilingual data, utilizing distance supervision, transfer learning, and various multi-model and multi-task approaches. 3. Develop a machine learning roadmap focused on content comprehension and provide mentorship to junior team members throughout the organization.	
	Spotify	Boston, USA
	<i>Machine Learning Engineer</i>	Sep 2016 – May 2017
	1. Develop machine learning models using deep learning and ranking methods for musical taste prediction from user behaviour. 2. Facilitate cross-team and cross-office collaborations on various projects.	
	Meta, (acquired by Chan Zuckerberg Initiative)	Toronto, Canada
	<i>Machine Learning Engineer</i>	Mar 2014 – Aug 2016
	1. Research and develop domain-specific Named Entity Recognition (NER) and disambiguation systems for biomedical scientific publications using CRF, text embeddings, etc. 2. Implement data aggregation pipelines using MapReduce, Spark, HBase. 3. Collaborate with cross-functional team members on building domain-specific ontologies.	