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EDUCATION	
<b>Ph.D. Carnegie Mellon University</b> Language Technologies Institute, School of Computer Science Advisor: Chenyan Xiong	September 2023 – Present
<b>M.S. Carnegie Mellon University</b> Language Technologies Institute, School of Computer Science Advisors: Maxine Eskenazi, Aaron Steinfeld	August 2021- August 2023
<b>B.S. University of British Columbia</b> Major: Computer Science and Mathematics (graduated with distinction)	December 2019
RESEARCH INTERESTS	
I work on data attribution methods for large language models (i.e., mapping train with applications for dataset curation and data valuation.	ing data to model outputs),
EXPERIENCE	
<ul> <li>Graduate Research Assistant</li> <li>CX Research Group (advised by Chenyan Xiong)</li> <li>Research areas: data attribution for LLMs, data-centric evaluation, training data DialRC Group, Carnegie Mellon University (advised by Maxine Eskenazi, Aaron Stete</li> <li>Research areas: dialogue systems, conversational NLP, interaction, accessibility</li> </ul>	einfeld) 2021–2023
<ul> <li>Data Scientist</li> <li>Motorola Solutions, Language-Driven Learning Team</li> <li>Adapted semantic data curation methods to create a large-scale text-to-SQL of</li> <li>Developed NLP solutions for public safety, including 911 dispatch data extract</li> </ul>	
NLP Research Intern       S         Motorola Solutions, Language-Driven Learning Team       Developed an unsupervised method for converting text to security database         Created a voice assistant for video security navigation (received the Presiden         Detected toxic speech from video intercoms in real time (received the AI/ML	it's Project Award '19).
<ul> <li>Software Engineer Intern Kongsberg Maritime</li> <li>Developed a C# sensor emulator that generated and transmitted pseudo-GPS</li> <li>Designed MATLAB tests for beamform processing on sonar images.</li> </ul>	Spring, Summer 2017 <i>Vancouver, Canada</i> 5 metadata patterns.

## PUBLICATIONS AND PREPRINTS

### \*= equal contribution

Fairshare Data Pricing for Large Language Models Luyang Zhang\*, **Cathy Jiao**\*, Beibei Li, Chenyan Xiong Preprint. Under Review.

On the Feasibility of In-Context Probing for Data Attribution Cathy Jiao, Gary Gao, Aditi Raghunathan, Chenyan Xiong NAACL 2025

Examining Prosody in Spoken Navigation Instructions for People with Disabilities. *Cathy Jiao, Aaron Steinfeld, Maxine Eskenazi.* NAACL 2024, Third Workshop on Bridging Human-Computer Interaction and Natural Language Processing

Understanding the Effectiveness of Very Large Language Models on Dialog Evaluation. Jessica Huynh, **Cathy Jiao**, Prakhar Gupta, Shikib Mehri, Payal Bajaj, Vishrav Chaudhary, Maxine Eskenazi. IWSDS 2023

Improving Zero and Few-shot Generalization in Dialogue through Instruction Tuning *Prakhar Gupta*, *Cathy Jiao*, *Yi-Ting Yeh*, *Shikib Mehri*, *Maxine Eskenazi*, *and Jeffrey P. Bigham* EMNLP 2022

Improving compositional generalization for multi-step quantitative reasoning in question answering *Armineh Nourbakhsh, Cathy Jiao, Sameena Shah, and Carolyn Rosé* EMNLP 2022

The DialPort Tools *Cathy Jiao*\*, *Jessica Huynh*\*, *Shikib Mehri*\*, *Maxine Eskenazi* SIGDIAL 2022

ET tu, CLIP? Addressing Common Object Errors for Unseen Environments *Cathy Jiao\*, Ye Won Byun\*, Shahriar Noroozizadeh\*, Jimin Sun\*, and Rosa Vitiello\** CVPR 2022, Embodied AI Workshop

#### PATENTS

## Natural language text conversion and method therefor Roger Donaldson, Cathy Jiao

U.S. Patent 11275906, 2022

#### **TEACHING/MENTORING**

#### **Teaching Assistant**

Fall 2024	Large Language Models: Methods and Applications (11-667), CMU
Spring/Fall 2024	Computer Networking (CPSC 317), UBC

#### **Student Research Mentoring**

Yijun Pan	University of Michigan Undergraduate
Emily Xiao	CMU Master
Daisy Sheng	CMU Undergraduate (SCS)
Ishita Dasgupta	CMU Master
Niket Jain	CMU Master
Gary Gao	CMU Undergraduate (Mathematical Sciences)
	Émily Xiao Daisy Sheng Ishita Dasgupta Niket Jain

#### AWARDS

2021 -	CMU Graduate Research Fellowship
2020	Motorola Solutions Merit Award
	Awarded for significant contributions in developing novel NLP applications
2019	Motorola Solutions President's Project Award
2018	Motorola Solutions AI/ML Project Award
	Awarded once per year for best project with ML applications
2018	University of Waterloo, David R. Cheriton School of Computer Science Undergraduate
	Research Conference Award
	Full funding provided to selected Canadian undergraduate students to attend UROC
2014	University of British Columbia Chancellor Scholar Award
	Given to incoming undergraduates with GPA >95% (A+)

## ACADEMIC SERVICE

Conference Reviewer: ACL, EMNLP, NAACL (2022 – present), ICTIR 2024 Workshop Reviewer: ICLR DATA-FM 2025, ICML ToM 2023

# VOLUNTEERING

2025	Committee Member, Student Committee for Faculty Hiring, CMU LTI
2022	Organizer, Student Research Symposium, CMU LTI
2022	Peer Mentor, CMU LTI Mentoring Program
2022	Peer Mentor, CMU A.I. Undergraduate Mentoring Program
2017	Peer Mentor, UBC Computer Science Department Tri-Mentoring Program
2016	Orientation Leader, UBC Faculty of Science