

Cathy Jiao

cljiao@cs.cmu.edu | cathyjiao@github.io

EDUCATION

- Ph.D. Carnegie Mellon University** 2023–
Language Technologies Institute, School of Computer Science
- M.S. Carnegie Mellon University** 2021-2023
Language Technologies Institute, School of Computer Science
Advisors: Maxine Eskenazi and Aaron Steinfeld
- B.S. University of British Columbia** 2014-2019
Computer Science and Mathematics, *with distinction*

PEER-REVIEWED PUBLICATIONS

*= equal contribution

- 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**
Jessica Huynh*, Shikib Mehri*, [Cathy Jiao](#)*, Maxine Eskenazi
SIGDIAL 2022
- ET tu, CLIP? Addressing Common Object Errors for Unseen Environments**
Ye Won Byun*, [Cathy Jiao](#)*, Shahriar Noroozizadeh*, Jimin Sun*, and Rosa Vitiello*
CVPR 2022 (Embodied AI Workshop)

PATENTS

Natural language text conversion and method therefor

Roger Donaldson and [Cathy Jiao](#)

U.S. Patent 11275906, 2022

TALKS

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| 2023 | <i>LLMs for Dialog Evaluation</i> , Carnegie Mellon University |
| 2020 | <i>Neural Semantic Parsing</i> , Motorola Solutions A.I. Seminar |
| 2019 | <i>NLP for Video Search</i> , Motorola Solutions A.I. Seminar |
| 2018 | <i>An Introduction to NLP</i> , Motorola Solutions A.I. Seminar |

TEACHING

CPSC 317 - Computer Networking

Spring 2019, Fall 2019

Computer Science Department, University of British Columbia

- Teaching Assistant: Ran tutorials twice a week for classes of 30-40 students, held office hours, and graded assignments/exams.

WORK EXPERIENCE

Data Scientist

Jan – Oct 2020

Motorola Solutions, Language-Driven Learning Team

Vancouver, Canada

- Crowdsourced a text-to-SQL dataset for video database search. Developed seq2seq models.
- Fine-tuned language models to extract key information in 911 dispatch comments.

NLP Research Intern

May - Dec 2018 and May - Aug 2019

Motorola Solutions, Language-Driven Learning Team

Vancouver, Canada

- Developed a voice assistant for operating video security software (**President's Project Award '19**).
- Created a method for converting multilingual text to database queries (**Patent Granted**).
- Detected toxic speech from video intercoms in real time (**AI/ML Project Award '18**).

Software Engineer Intern

Jan 2017 – Aug 2017

Kongsberg Maritime

Vancouver, Canada

- Developed a sensor emulator that generates and transmits pseudo-GPS metadata patterns.
- Designed software tests for a MATLAB toolbox that performed beamform processing for sonar images.

AWARDS

2021 –	CMU Graduate Research Fellowship
2020	Motorola Solutions Merit Award
2019	Motorola Solutions President's Project Award
2018	Motorola Solutions AI/ML Project Award
2018	University of Waterloo Undergraduate Research Conference Travel Funding Award
2014	University of British Columbia Chancellor Scholar Award
2014	British Columbia Passport to Education Award

SERVICE

Reviewer

- EMNLP 2022, 2023
- ACL 2022
- ICML (ToM Workshop) 2023

VOLUNTEERING

2022	<i>Organizer</i> , Student Research Symposium, CMU Language Technologies Institute
2022	<i>Peer Mentor</i> , CMU LTI Mentoring Program, CMU A.I. Undergraduate Mentoring Program
2017	<i>Peer Mentor</i> , UBC Computer Science Department Tri-Mentoring Program
2016	<i>Orientation Leader</i> , UBC Faculty of Science