

# Cathy Jiao

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## EDUCATION

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<b>Carnegie Mellon University</b> Ph.D. in Language Technologies	2023–
<b>Carnegie Mellon University</b> M.S. in Language Technologies <i>Advisors: Maxine Eskenazi and Aaron Steinfeld</i>	2021-2023
<b>University of British Columbia</b> B.S. in Computer Science and Mathematics, <i>with distinction</i>	2014-2019

## PEER-REVIEWED PUBLICATIONS

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\*= 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

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### 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

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### 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

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### 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

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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

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### Reviewer

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

## VOLUNTEERING

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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