

Ada Tur

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EDUCATION

McGill University

Bachelor of Arts in Computer Science and Linguistics

Montreal, QC

Aug. 2022 – May 2026

EXPERIENCE

Research Intern

MILA Quebec AI Institute

January 2023 – January 2024

Montreal, QC

- Working on rescoring ASR n-best hypotheses of SpeechBrain recognition model using language modelling (Llama2, GPT, BLOOM)
- Advised by Professor Mirco Ravanelli

Podcast Producer

McGill Artificial Intelligence Society

August 2023 – Present

Montreal, QC

- Conducting interviews with professors in Montreal and AI professionals
- Recording, editing, and producing audio

Research Intern

University of Southern California Institute for Creative Technologies

January 2021 – November 2022

Playa Vista, CA

- Assisted on USC ICT ScoutBot interactive military robot project for conversational capabilities
- Developed GPT and BERT-based models for human-robot communication system
- First author on paper published at the Language Resources and Evaluation Conference 2022

Research Intern

CYVision

June 2020 – May 2021

Palo Alto, CA

- Developed convolutional neural network model for driving assistance heads-up display
- Worked alongside one other intern to fully implement and evaluate the system
- First author on paper published at the Society for Information Display Annual Display Week Conference 2021

PUBLICATIONS

- Ada Tur, *Deep Learning for Style Transfer and Experimentation With Audio Effects and Music Creation*, Proceedings of the AAI Conference on Artificial Intelligence, Undergraduate Consortium, March 24, 2024, Vancouver, British Columbia, Canada
- Ada Defne Tur, Julia Hirschberg, *President Botrick: An Analysis of Deep Learning-Based Conversational AI Models to Identify and Create Influential Political Speeches*, AAI Workshop for AI and Diplomacy, February 7-14, 2023, Washington D.C., USA.
- Ada D. Tur, David R. Traum, *Comparing Approaches to Language Understanding for Human-Robot Dialogue: An Error Taxonomy and Analysis*, Proceedings of the 13th Conference on Language Resources and Evaluation (LREC 2022), June 20-25, 2022, Marseille, France.
- Ada Defne Tur, Deniz Yaralioglu, Cemalettin Yilmaz, *ML-Based Eye Tracking for Augmented Reality Heads-Up Displays (AR HUDs)*, Society for Information Display (SID) Display Week, May 17-21, 2021.

PROJECTS

SpeechBrain

- Working in team at MILA Quebec AI Institute under Professor Mirco Ravanelli conducting research on SpeechBrain NLP Toolkit
- Using BERT and GPT-2 to analyze the capabilities of large language models for rescoring ASR output

President Botrick

- Developed two-step model for political speech classification and generation
- Used BERT model for identifying persuasive and impactful political speeches and lines in United States history

- Generated novel speeches based on classification task using GPT-2
- Conducted linguistic analysis on findings, evaluation, and results
- First author on paper, gave talk on paper at AAAI 2023 Workshop on AI and Diplomacy in Washington D.C.

Music Lyric Project

May 2020 – July 2020

- Created 3-part deep learning system to predict genres of songs based on lyrics and MIDI melodies
- Generated new song lyrics based on MIDI melodies and lyrics

HONORS AND AWARDS

AAAI-UC Scholar 2024: Awarded by the Association for the Advancement of AI for a project proposal on Deep Learning for Style Transfer and Experimentation with Audio Effects and Music Creation, utilizing digital signal processing, natural language processing, and deep learning.

PROFESSIONAL ACTIVITIES

ICASSP Explainable Machine Learning for Speech and Audio Workshop: Reviewer

RELEVANT COURSEWORK

Natural Language Processing, Natural Language Understanding with Deep Learning, Computational Linguistics, Mathematical Logic, From Natural Language to Data Science, Theory of Computation, Phonetics, Syntax, Sociolinguistics, Probability, Linear Algebra, Software Systems, Computer Systems, Programming Languages and Paradigms, Linguistics

TECHNICAL SKILLS

Programming Languages: Python, Java, C, Bash, OCaml, Clojure

Spoken Languages:

Fluent: English, Turkish

Intermediate: French