

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 – Present

Montreal, QC

- Working on rescoring ASR n-best hypotheses of SpeechBrain recognition model using language modelling
- 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 Defne Tur, Julia Hirschberg, *President Botrick: An Analysis of Deep Learning-Based Conversational AI Models to Identify and Create Influential Political Speeches*, AAAI 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

January 2023 – Present

- 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
- Generated novel speeches based on classification task using GPT-2

President Botrick

August 2021 – February 2023

- 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

TECHNICAL SKILLS

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

Spoken Languages:

Fluent: English, Turkish

Intermediate: French