

Alex Wilf

awilf@cs.cmu.edu | abwilf.github.io

EDUCATION

Carnegie Mellon University, Pittsburgh

Sep 2021 - Present

PhD Student in Language Technologies Institute, School of Computer Science

- Courses: Machine Learning, Advanced Topics in Multimodal Machine Learning, Natural Language Processing, Question Answering, Artificial Social Intelligence
- Cumulative GPA: 4.04 / 4.0

University of Michigan, Ann Arbor

B.S. in Computer Science, Phi Beta Kappa

Sep 2015 - Dec 2019

PUBLICATIONS

Alex Wilf*, Syeda Akter et al. "Difference-Masking: Choosing What to Mask in Continued Pretraining." arXiv preprint arXiv:2305.14577 (2023).

Alex Wilf*, Qianli M. Ma*, Paul Pu Liang, Amir Zadeh, and Louis-Philippe Morency. "Face-to-Face Contrastive Learning for Social Intelligence Question-Answering". Oral Presentation at **FG 2023**.

Alex Wilf and Emily Mower Provost. "Dynamic Layer Customization for Noise Robust Speech Emotion Recognition in Heterogeneous Condition Training." 2021. Oral Presentation at **ACII 2021**.

EXPERIENCE

Graduate Research Assistant

Sep 2021 - Present

MultiComp Lab, Carnegie Mellon University

Pittsburgh, PA

- Researching artificial social intelligence with Professor Louis-Philippe Morency.

Research Assistant

Jan 2020 - May 2021

Computational Human Artificial Intelligence Lab, University of Michigan

Ann Arbor, MI

- Researched deep learning methods for deployable automatic speech emotion recognition with Professor Emily Mower Provost.
- Collaborated with Carnegie Mellon's MultiComp Lab to investigate conditional computation in deep networks.
- Designed a novel task and approach for noise robust speech emotion recognition, showed significant improvements over baseline.

Software Engineering Intern

May 2018 - Aug 2018

Uber

San Francisco, CA

- Completed full stack project building search into Uber for Business dashboard and supporting database infrastructure.
- Organized and led conversations with three different teams to design an efficient data storage and retrieval solution.
- Implemented back end functionality using Go, front end functionality using React, Redux, Node/Javascript.

President

May 2018 - May 2019

University of Michigan Men's Glee Club

Ann Arbor, MI

- Managed \$500,000 budget, 12 person executive team, 95 person glee club and alumni relations with over 2,500 alumni.
- Raised over \$100,000 for international tour, increased profits from concerts, digitized recordings, created alumni database and web store with new merchandise.
- Increased community outreach by raising over 36,000 meals for charity and performing for inmates and hospital patients.

Service

Co-organizer: 2nd Workshop on Artificial Social Intelligence @ ICCV 2023

Co-organizer: 4th Workshop on Multimodal Artificial Intelligence @ NAACL 2022

Reviewer: ACHI 2021

TEACHING

Teaching Assistant, Carnegie Mellon University

Sep 2022 - Dec 2022

11-777 Multimodal Machine Learning

Pittsburgh, PA

Teaching Assistant, University of Michigan

Sep 2019 - Dec 2019

EECS 492: Introduction to Artificial Intelligence

Ann Arbor, MI

HONORS AND AWARDS

The Hugh G. Rumler Prize	2019
Phi Beta Kappa	2019
EECS Scholar	2018, 2019
Dewey, Ramsey, Llangollen Scholarships (Men's Glee Club)	2018
James B. Angell Scholar	2017, 2018
Barger Leadership Institute Capstone Award	2017
University Honors	2016-2019
Grand Prize (EECS 183 Showcase)	2016

TECHNICAL SKILLS

Programming Languages: Python, C++, Javascript, Go

Libraries and Tools: Tensorflow, PyTorch, NumPy, Git