

Yiming Zhang

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EDUCATION

University of Chicago

Pre-Doctoral M.S. in Computer Science, advised by Prof. Chenhao Tan

Expected Dec. 2022

University of Michigan

B.S. in Computer Science, Pure Mathematics and Cognitive Science

- GPA: 3.54, 4× University Honors, 2× James B. Angell Scholar

Sep. 2016 – Dec. 2020

EXPERIENCES

Chicago Human+AI Lab (CHAI)

Researcher, advised by Prof. Chenhao Tan

May 2021 - Present

Chicago, IL

- Working on interpretable NLP, specifically methods to help NLP models learn from human explanations
- Implemented a RoBERTa-based rationale model, which is capable of generating high quality rationales while making interpretable predictions

Tencent

Software Engineer Intern & Researcher

June 2021 - Aug. 2021

Shenzhen, CN

- Developed keyword-based image scraper using *Python*, *beautifulsoup4* and *selenium*
- Designed and implemented a variant of *StyleGAN-v2* for controlled face synthesis
- Improved the efficiency of face generation pipeline by 80% using *pytorch-lightning* and mixed-precision training

WhaleDynamic

Software Engineer Intern

Feb. 2021 - May 2021

Shenzhen, CN

- Worked on the fusion of RGB and point cloud data for enhanced 3D object detection in autonomous vehicles
- Designed an algorithm that enabled effective point cloud down-sampling using multi-modal input

BlablabLAB, University of Michigan

Undergraduate Research Assistant, advised by Prof. David Jurgens

May 2019 - Aug. 2020

Ann Arbor, MI

- Created a corpus of 26M Reddit conversations
- Trained an *ALBERT*-based model to forecast trajectories of online conversations

Language and Information Technologies Group, University of Michigan

Undergraduate Research Assistant, advised by Dr. Laura Burdick and Prof. Rada Mihalcea

June 2019 - Dec. 2020

Ann Arbor, MI

- Designed an entity extraction algorithm in a Knowledge Graph construction pipeline.
- Proposed an *BERT*-based adversarial training algorithm for zero-shot named-entity recognition on over 30 languages

University of Michigan, Department of Mathematics

Teaching Assistant for MATH 351: Principles of Analysis

Fall 2020

- Guided student discussions in an inquiry-based real analysis class

PUBLICATIONS AND MANUSCRIPTS

“**Conversations Gone Alright: Quantifying and Predicting Prosocial Outcomes in Online Conversations**”, Jiajun Bao*, Junjie Wu*, **Yiming Zhang***, Eshwar Chandrasekharan and David Jurgens, *Proceedings of the Web Conference*, 2021 (WWW 2021).

“**Building a Flexible Knowledge Graph to Capture Real-World Events**”, Laura Burdick, Mingzhe Wang, Oana Ignat, Steve Wilson, **Yiming Zhang**, Yumou Wei, Rada Mihalcea and Jia Deng, *Text Analysis Conference*, 2019 (TAC 2019).

SKILLS

Languages: Python, C++, C, JavaScript, Bash, SQL

Frameworks & Tools: PyTorch, NLTK, Flask, SocketIO, Hadoop, OpenCV, ReactJS, Redis, Selenium, AWS