

HAN LIU

<https://HanLiuAI.github.io> ◇ hanliu@uchicago.edu

EDUCATION

The University of Chicago

September 2020 - Present

Ph.D. student in Computer Science

Advisor: Prof. Chenhao Tan

University of Colorado Boulder (transferred out)

August 2019 - July 2020

Ph.D. student in Computer Science

Advisor: Prof. Chenhao Tan

Washington University in St. Louis

August 2015 - May 2019

B.A. in Mathematics, Computer Science

Minor in Linguistics

RESERACH EXPERIENCE

NLP+CSS Lab

August 2019 - Present

Research Assistant (Advisor: Prof. Chenhao Tan)

Boulder, CO

Design interactive explanations of machine learning models and study how humans behave with the aid of different types of explanations in various decision making tasks such as deceptive review detection, profession classification, and recidivism prediction.

Neural Polysynthetic Language Modeling

at the Sixth Frederick Jelinek Memorial Summer Workshop (JSALT) June - August 2019

Research Intern

Montréal, QC, Canada

- Trained morpheme-aware RNN language models for polysynthetic languages.
- Converted language models to TensorFlow Lite and built back-end service on Android Simulator.
- Built mobile keyboards with predictive text logic using LatinIME open source package.

TEACHING EXPERIENCE

Hold weekly office hours, design homework and exams for the following courses:

CSCI 5622: Machine Learning (University of Colorado Boulder, Fall 2019)

PUBLICATIONS

“Why is ‘Chicago’ deceptive?” Towards Building Model-Driven Tutorials for Humans

Vivian Lai, **Han Liu**, and Chenhao Tan. *In Proceedings of the ACM CHI Conference on Human Factors in Computing Systems 2020 (CHI’2020)*.

Neural Polysynthetic Language Modelling

Lane Schwartz, Francis Tyers, Lori Levin, Christo Kirov, Patrick Littell, Chi-kiu Lo, Emily Prud’hommeaux, Hyunji Hayley Park, Kenneth Steimel, Rebecca Knowles, Jeffrey Micher, Lonny Strunk, **Han Liu**, Coleman Haley, Katherine J. Zhang, Robbie Jimmerson, Vasilisa Andriyanets, Aldrian Obaja Muis, Naoki Otani, Jong Hyuk Park, and Zhisong Zhang. *Final report of the Sixth Frederick Jelinek Memorial Summer Workshop. arXiv preprint arXiv:2005.05477*.

AWARDS

NAACL Scholarship for The Undergraduate Summer School at The 2019 Annual Jelinek Memorial Workshop On Speech And Language Technology (JSALT)