

HAN LIU

<https://HanLiuAI.github.io> ◇ han.liu@colorado.edu

EDUCATION

University of Colorado Boulder

Ph.D. student in Computer Science

Advisor: Prof. Chenhao Tan

August 2019 - Present

Washington University in St. Louis

B.A. in Mathematics, Computer Science

Minor in Linguistics

August 2015 - May 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)*.

RESERACH EXPERIENCE

NLP+CSS Lab

Research Assistant (Advisor: Prof. Chenhao Tan)

August 2019 - Present

Boulder, CO

- Design interactive interface to improve human performance on deceptive review detection by intergrating features extracted from machine learning algorithms.
- Analyze and compare different explanations of machine learning algorithms by measuring how much improvemance users can gain from them.

Neural Polysynthetic Language Modeling

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

Research Intern

Montreal, 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.

Social Influence in User-Generated Content Platforms

Independent Study (Advisor: Prof. Chien-Ju Ho)

September 2017 - May 2018

St. Louis, MO

- Simulated online social platforms and studied the influence of popularity bias and position bias on user behaviors.
- Implemented Upper Confidence Bound algorithm and campared its influence on user happiness with several other ranking algorithms.
- Experimented with popular machine learning algorithms on Reddit data and analyzed predictive powers of different features for user-generated content possibly influenced by social bias.

TEACHING EXPERIENCE

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

CSCI 5622: Machine Learning (Fall 2019)

AWARDS

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