Leo Zeyu Liu

CONTACT INFORMATION

Email: zliu@cs.utexas.edu
`https://leo-liuzy.github.io/`

EDUCATION

University of Texas at Austin Aug. 2023 – June 2029 (Expected)
Ph.D. in Computer Science
Advisor: Greg Durrett and Eunsol Choi

University of Washington, Seattle Sept. 2017 – March 2023
BS/MS in Computer Science
Advisor: Noah A. Smith, Shane Steinert-Threlkeld

EXPERIENCE

University of Washington, Computer Science and Engineering 2019 — Present
Research Assistant, with Noah A. Smith, Yizhong Wang, and Jungo Kasai

University of Washington, CLMBR 2020 — Present
Research Assistant, with Shane Steinert-Threlkeld

Allen Institute for Artificial Intelligence (AI2) Winter 2021
Software Engineer, with Evan Pete Walsh

USC Information Science Institute, Natural Language Group Summer 2021
Research Intern, with Xuezhe Ma (Max) and Jonathan May

Meta AI, FAIR Accelerator Sept. 2021 — Sept. 2022
AI Resident, with Xian Li, Veselin Stoyanov, Luke Zettlemoyer, Tim Dettmers, and Xi Victoria Lin

AWARDS & HONORS

Runner-up Best Paper, ICLR Workshop on EmeCom Workshop, 2022 [3]
Citadel UW Datathon 2nd Place $2500, 2018
Dean's List, 2017 – 2020

REFEREED PUBLICATIONS

***** = equal contribution, α = sorted alphabetically or randomly

[1] *Towards A Unified View of Sparse Feed-Forward Network in Transformer*
Leo Z. Liu, Tim Dettmers, Xi Victoria Lin, Veselin Stoyanov, Xian Li
The 2023 Conference on Empirical Methods in Natural Language Processing(EMNLP), 2023.

[2] *Learning to translate by learning to communicate*
C.M. Downey, **Leo Z. Liu**, Xuhui Zhou, Shane Steinert-Threlkeld
The 3rd Workshop on Multilingual Representation Learning @ EMNLP, 2023.

[3] *Emergent Communication Fine-tuning (EC-FT) for Pretrained Language Models*
Shane Steinert-Threlkeld, Xuhui Zhou, **Leo Z. Liu**, C. M. Downey
ICLR EmeCom Workshop ***(Runner-up Best Paper)***, 2022.

[4] *Probing Across Time: What Does RoBERTa Know and When?*
Leo Z. Liu*, Yizhong Wang*, Jungo Kasai, Hannaneh Hajishirzi, Noah A. Smith
EMNLP Finding and EMNLP BlackboxNLP Workshop (Poster), 2021.

[5] *Linguistically-Informed Transformations (LIT): A Method for Automatically Generating Contrast Sets*
Chuanrong Li$^{\alpha}$, Lin Shengshuo$^{\alpha}$, **Leo Z. Liu**$^{\alpha}$, Xinyi Wu$^{\alpha}$, Xuhui Zhou$^{\alpha}$, Shane Steinert-Threlkeld
EMNLP BlackboxNLP Workshop (Poster), 2020.

Professional Service

Program Committee Member:

- Workshop on Simple and Efficient Natural Language Processing (SustaiNLP): 2021
- Conference on Empirical Methods in Natural Language Processing (EMNLP): 2022, 2023
- Instruction Workshop @ NeurIPS: 2023

Student Volunteer:

- Conference on Empirical Methods in Natural Language Processing (EMNLP): 2020
- Annual Meeting of the Association for Computational Linguistics (ACL): 2020

Teaching

CSE 447: Natural Language Processing, University of Washington — Autumn 2022
Assisted with course planning and development, led several weekly office hours, most responsive TA on online Question Answering, grading

- Instructor: Professor Yulia Tsvetkov

CSE 5/446: Machine Learning, University of Washington — Spring 2021
Assisted with course planning and development, led a weekly discussion section, attend online Question Answering, grading

- Instructor: Professor Sewoong Oh and Professor Simon Shaolei Du

CSE 5/446: Machine Learning, University of Washington — Autumn 2020
Assisted with course planning and development, held weekly office hours, attend online Question Answering. Developed a new section material for Stein's paradox and a new topic modeling assignment

- Instructor: Professor Kevin Jamieson and Professor Jamie Morgenstern

CSE 5/446: Machine Learning, University of Washington — Spring 2020
Assisted with course planning and development, led a weekly discussion section, and held weekly office hours.

- Instructor: Professor Kevin Jamieson and Professor Jamie Morgenstern

CSE 5/446: Machine Learning, University of Washington — Autumn 2019
Assisted with course planning and development, led a weekly discussion section, and held weekly office hours. Developed a new section material for Maximum Likelihood Estimation.

- Instructor: Professor Sewoong Oh

CSE 446: Machine Learning, University of Washington — Spring 2019
Assisted with course planning and development, led a weekly discussion section, and held weekly office hours. Developed a new section material for Maximum Likelihood Estimation.

- Instructor: Professor Kevin Jamieson and Professor Anna R. Karlin

Date Compiled

October 9, 2023