

# Zeyu Leo Liu

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## CONTACT INFORMATION

*Email:* [zliu@cs.utexas.edu](mailto:zliu@cs.utexas.edu)  
<https://leo-liuzy.github.io/>

## EDUCATION

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

**University of Washington, Seattle** Sept. 2017 – March 2023  
B.S./M.S. in Computer Science  
Advisor: Noah A. Smith and 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 Tim Dettmers, Xian Li, Xi Victoria Lin, Veselin Stoyanov, and Luke Zettlemoyer

## AWARDS & HONORS

Runner-up Best Paper, ICLR Workshop on EmeCom Workshop, 2022 [4]  
Citadel UW Datathon 2nd Place \$2500, 2018  
Dean’s List, 2017 – 2020

## REFEREED PUBLICATIONS

- \* = equal contribution,  $\alpha$  = sorted alphabetically or randomly
- [1] *OpenAgents: An Open Platform for Language Agents in the Wild*  
Tianbao Xie, Fan Zhou, Zhoujun Cheng, Peng Shi, Luoxuan Weng, Yitao Liu, Toh Jing Hua, Junning Zhao, Qian Liu, Che Liu, **Zeyu Leo Liu**, Yiheng Xu, Hongjin Su, Dongchan Shin, Caiming Xiong, Tao Yu  
*arXiv*, 2023.
  - [2] *Towards A Unified View of Sparse Feed-Forward Network in Transformer*  
**Zeyu Leo Liu**, Tim Dettmers, Xi Victoria Lin, Veselin Stoyanov, Xian Li  
*The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2023.
  - [3] *Learning to translate by learning to communicate*  
C.M. Downey\*, Xuhui Zhou\*, **Zeyu Leo Liu**, Shane Steinert-Threlkeld  
*The 3rd Workshop on Multilingual Representation Learning @ EMNLP*, 2023.
  - [4] *Emergent Communication Fine-tuning (EC-FT) for Pretrained Language Models*  
Shane Steinert-Threlkeld, Xuhui Zhou, **Zeyu Leo Liu**, C. M. Downey  
*ICLR EmeCom Workshop (Runner-up Best Paper)*, 2022.
  - [5] *Probing Across Time: What Does RoBERTa Know and When?*  
**Zeyu Leo Liu**\*, Yizhong Wang\*, Jungo Kasai, Hannaneh Hajishirzi, Noah A. Smith  
*EMNLP Finding and EMNLP BlackboxNLP Workshop (Poster)*, 2021.
  - [6] *Linguistically-Informed Transformations (LIT): A Method for Automatically Generating Contrast Sets*

Chuanrong Li<sup>α</sup>, Lin Shengshuo<sup>α</sup>, **Zeyu Leo Liu<sup>α</sup>**, Xinyi Wu<sup>α</sup>, Xuhui Zhou<sup>α</sup>, 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

**UTCS DiRP mentor**, The University of Texas at Austin Spring 2024  
Lead weekly reading group and introduce modern (post transformer) Natural Language Processing techniques to undergraduate students.

**CSE 447: Natural Language Processing**, University of Washington Winter 2023  
Assisted with course planning and development, led weekly office hours, online Question Answering, grading  
• Instructor: Sofia Serrano

**CSE 447: Natural Language Processing**, University of Washington Autumn 2022  
Assisted with course planning and development, led 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 March 9, 2024