




Harry Liuson

 LinkedIn |  GitHub |  Personal Website

EDUCATION

University of Rochester

BS in Computer Science, BA in History

Rochester, NY

August 2021 – Present

PUBLICATIONS

- **Harry Liuson**, Jianxun Lian, Yuxuan Lei, and Xing Xie, “Low-Parameter Soft-Prompt Learning for Behavioral Adaptation in LLMs,” *Manuscript in Preparation*
- Michael C. Chavrimootoo, Yumeng He, Matan Kotler-Berkowitz, **Harry Liuson**, and Z. Nie, “Evaluating the Claims of ‘SAT Requires Exhaustive Search’,” *arXiv preprint arXiv:2312.02071*, December 2023.*
- Michael C. Chavrimootoo, Yumeng He, Matan Kotler-Berkowitz, **Harry Liuson**, and Z. Nie, “A Critique of Du’s ‘A Polynomial-Time Algorithm for 3-SAT’,” *arXiv preprint arXiv:2404.04395*, April 2024.*

*Authors listed alphabetically, all authors contributed equally.

REVIEWING EXPERIENCE

- Referee for *MFCS 2024*

EXPERIENCE

Microsoft Corporation

Research Intern

Beijing, China

May 2024 - Present

- Authored a paper on low-parameter soft-prompt learning for behavioral adaptation in large language models. Demonstrated competitive or superior performance over LoRA and soft-prompting baselines, as well as benefits in terms of adaptability and computational efficiency.
- Conducted a comprehensive review of current methods for roleplay using large language models. Reproduced, evaluated, and critiqued contemporary methods, motivating our proposed approach.
- Received Stars of Tomorrow award for performance at Microsoft.

University of Rochester

Undergraduate Researcher

Rochester, NY

September 2023-May 2024

- REU on Computational Social Choice under Professor Lane Hemaspaandra and Michael C. Chavrimootoo. Research on complexity of election manipulations problems under voting rule uncertainty.

Undergraduate Researcher

December 2022-August 2023

- Research on alternatives to backpropagation under Professor Chris Kanan and Jhair Gallardo. Investigated theoretical properties of Kickback algorithm and empirical performance on image classification and regression tasks.

Teaching Assistant

September 2022-Present

- Teaching Assistant for CSC 246 Machine Learning (Fall 2022), CSC 282 Design and Analysis of Efficient Architectures (Spring 2023), CSC 245 Deep Learning (Fall 2023), CSC 280 Theory of Computation (Fall 2024). Responsible for grading, holding office hours, and leading recitations.

Pulumi Corporation

Software Intern

Seattle, WA

Summer 2022

- Collaborated on first place winning hack week project which served as the prototype for a major improvement of the provider authoring experience.
- Modified the Pulumi plugin loading logic to simplify the workflow for developing new Pulumi plugins

Trainiac (aquired by Gympass in 2021)

Software Intern

Seattle, WA

Summer 2019, 2020

- Independently scoped, designed, built, and deployed internal web tool to complement trainer iOS app.
- Developed tools in SQL to dramatically reduce error in estimated user workout duration. Implemented quality of life improvements in trainer iOS app