Yuxuan Li

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Education

Tsinghua University, Department of Computer Science and Technology 2020.9 - 2024.7(Expected)

Publication (*Indicating equal contribution)

- *Say Your Reason: Extract Contextual Rules In Situ for Context-aware Service Recommendation*
  Yuxuan Li, Jiahui Li, Lihang Pan, Chun Yu, Yuanchun Shi In submission to CHI 2024
- *A Human-Computer Collaborative Tool for Training a Single Large Language Model Agent into a Network through Few Examples*
  Lihang Pan*, **Yuxuan Li***, Chun Yu, Yuanchun Shi In submission to CHI 2024
- *Mirror, Mirror on the Wall: How Machine-Generated User Profiles Influence News Consumption Patterns and Beyond*
  Yuxuan Li*, Mingduo Zhao*, Coye Cheshire In submission to CHI 2024

Selected Research Experience

Can Language Models Be Used in Mobile Context-Aware Recommender System? 2022.10 - 2023.7

Advised by Prof. Chun Yu, ACSP(Tsinghua University - University of Washington)

– Explore language models' role as context identifiers in mobile context-aware recommender system with users' single-sentence reasons
– Implement system SayRea based on this concept and conduct a 10-day field study to validate the proposed approach

How to Collaboratively Design a Multi-LLM-Agent Network Easily? 2023.2 - 2023.8

Advised by Prof. Chun Yu and Prof. Yuanchun Shi, Tsinghua University

– Enable the evolution process from a single LLM agent to a multi-agent network under human supervision and guidance through few examples
– Conduct user study in many scenarios to validate the system(EasyLAN)'s ability to help users design multi-agent networks collaboratively

To What Extent can Large Language Models Replace Human Workers? 2023.3 - 2023.7

Advised by Prof. John Canny, University of California, Berkeley

– Quantify the potential for automation using large language models across different occupations of human workers
– Delve into reasons for both intuitive and counter-intuitive results

How to Use Generative AI to Persuade People? 2023.3 - Present

Advised by Prof. John Canny, University of California, Berkeley

– Design a large-scale comparative study via Qualtrics to examine treatment effects of different generative-AI-related persuasion approach
– Examine effects of generative AI to bridge political polarization

Can Machine-Generated User Profiles Influence News Consumption Patterns and Beyond? 2023.5 - 2023.9

Advised by Prof. Coye Cheshire, University of California, Berkeley

– Conduct empirical study via Prolific using realistic Google News experiment website built from scratch

– Perform linear regression to investigate (heterogeneous) treatment effect of different dimensions of user profiles

Are Advertisements Better When Automatically and Interactively Generated Specially for Each Customer? 2023.7 - Present

Advised by Prof. Jeremy Z Yang, Harvard University

– Implement system InteractAds to interact with customers to generate personalized advertisements
– Conduct validation study to validate the effect of generated personalized advertisements

How to Correctly Attribute Conversions to Advertisement Campaigns for Each Customer? 2023.7 - Present

Advised by Prof. Jeremy Z Yang, Harvard University

– Train a transformer model to perform time series prediction based on Criteo's attribution dataset
– Merge targeted maximum likelihood estimation with transformer model to better attribute conversions

What Will Happen If a Large Language Model Makes All Decisions for a Social Media Account? 2023.8 - Present

Advised by Prof. Coye Cheshire, University of California, Berkeley

– Simulate actual Facebook users using LLM to automatically make decisions in real Facebook environment
– Conduct a 2-week online experiment to investigate multiple social computing elements

Academic Services

- **Reviewer, CHI 2024** 2023.9 - Present
- **Teaching Assistant, Student Research Training on HCI** Tsinghua University, 2022.12 - 2023.7

Work Experience

- **Chief Engine Developer** Talegorithm (start-up), 2023.7 - Present

Awards and Honors

- **Academic Excellence Scholarship** Tsinghua University, 2023
- **Academic Excellence Scholarship** Tsinghua University, 2022
- **Sport Excellence Scholarship** Tsinghua University, 2021
- **Freshman Scholarship** Tsinghua University, 2020
- **Top 10 in National Semi-final** Jittor National Artificial Intelligence Competition, 2022

Skills

- **Programming Languages:** Python, C++, Java, Rust, System Verilog
- **Deep Learning:** Pytorch, Jittor
- **Methods:** Empirical Study, Field Study, Lab Experiment