

# Yuxuan Li

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## EDUCATION

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B.Eng in Computer Science and Technology, Tsinghua University 2020.9 - 2024.7(Expected)

## PUBLICATIONS AND PREPRINTS (\*Indicating equal contribution)

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- *Say Your Reason: Extract Contextual Rules In Situ for Context-aware Service Recommendation*  
Yuxuan Li, Jiahui Li, Lihang Pan, Chun Yu, Yuanchun Shi Submitted 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 Submitted 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 Submitted to CHI 2024

## SELECTED RESEARCH EXPERIENCE

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**The Influence of Machine-Generated User Profiles on News Consumption Patterns: Empirical Insights and Policy Implications** 2023.5 - 2023.9

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

- Adopted an empirical methodology using a custom-designed Google News experimental platform, with data procured from Prolific
- Conducted linear regression analyses to evaluate the (heterogeneous) treatment effects across diverse user profile dimensions
- Identified significant correlations between specific user profile dimensions and news consumption behaviors, and proposed relevant policy implications

**SayRea: Utilizing Language Models for Contextual Attribute Extraction and Rule Formulation in Mobile Context-Aware Recommender Systems** 2022.10 - 2023.7

*Advised by Prof. Chun Yu, University of Washington - Tsinghua University, Access Computing Summer Program*

- Formulated and developed algorithms leveraging language models to accurately extract contextual attributes from users' single-sentence explanations and build rules for mobile context-aware recommender systems
- Adapted the algorithmic framework for the design and development of the SayRea system, prioritizing in-situ contextual rule creation to minimize cognitive load
- Conducted a 10-day field study; results underscored the efficiency and accuracy of the devised algorithms in formulating contextual rules and recommending services
- Patent filed and under review

**EasyLAN: A Human-Computer Collaborative Approach for the Design and Evolution of Multi-LLM-Agent Networks** 2023.2 - 2023.8

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

- Developed and implemented algorithms to facilitate the evolution of a single LLM agent into a multi-agent network under human supervision using a limited set of examples
- Built the EasyLAN system leveraging the aforementioned algorithms, designed to aid users in collaboratively creating multi-agent networks
- Conducted extensive user studies across diverse scenarios; findings demonstrated a significant enhancement in collaborative network design capabilities via EasyLAN
- Patent filed and under review

## Assessing the Capability of Large Language Models to Replace Human Workers 2023.3 - 2023.7

*Advised by Prof. [John Canny](#), University of California, Berkeley*

- Investigated the extent of automation potential through large language models across various occupations and explored the underlying factors responsible for both anticipated and unexpected outcomes

## Generative AI as a Tool for Persuasion: A Comparative Study on Strategies to Address Polarization 2023.3 - Present

*Advised by Prof. [John Canny](#) and Prof. [Ganesh Iyer](#), University of California, Berkeley*

- Designed a comprehensive comparative study using Qualtrics to investigate the treatment effects of various generative AI-related persuasion strategies, with an emphasis on addressing polarization
- Plan to submit findings to *Nature*

## The Influence of Large Language Model-Driven Synthetic Entities on User Perceptions and Behaviors in a Facebook Environment 2023.8 - Present

*Advised by Prof. [Coye Cheshire](#), University of California, Berkeley*

- Employed LLM to simulate synthetic entities mirroring the behaviors of actual Facebook users and investigated on their potential influence on the perceptions and behaviors of users in real Facebook environment

## InteractAds: A Human-Computer Collaborative Approach for Enhanced Customer Engagement with Interactive Tailored Advertisements 2023.7 - Present

*Advised by Prof. [Jeremy Z Yang](#), Harvard University*

- Developed and deployed the InteractAds system, a novel approach to advertisement generation, designed to enhance customer engagement by dynamically tailoring content based on individual preferences

## WORK EXPERIENCE

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### • Co-Founder/Chief Engine Developer Talegine (start-up), 2023.6 - Present

- Engineered a sophisticated storytelling engine that dynamically interacts with readers, driving narrative progression based on reader feedback
- Leveraged algorithmic techniques and narratological theories to optimize the balance between reader autonomy and high-caliber aesthetic narrative quality

## ACADEMIC SERVICES

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### • Reviewer, CHI 2024 2023.9 - Present

### • Teaching Assistant, Student Research Training on HCI Tsinghua University, 2022.12 - 2023.7

## AWARDS AND HONORS

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### • Academic Excellence Scholarship Tsinghua University, 2023 and 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

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### • Programming Languages: Python, Java, C++, Rust, System Verilog

### • Deep Learning: PyTorch, Jittor

### • English: Toefl 115 (R:30, L:29, S:26, W:30)