

# YU-SHIN (Lexi) Liou

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## EDUCATION

**Master of Science in Interactive Media Technology**, KTH University, Stockholm, Sweden 2025.8-Present  
**Visiting Student**, University of California, Berkeley, U.S. 2023.8-2024.5

- GPA: 3.87/4.0
- Related courses: Introduction to Artificial Intelligence, Human-Computer Interaction (HCI) Research, Honors Social Implications of Computer Technology

**Bachelor of Sociology**, National Taiwan University (NTU), Taipei, Taiwan 2020.9-2024.6

- GPA: 3.84/4.3
- Related courses: Applied Deep Learning, Programming design, C/C++ Programming, Data Structures and Advanced Program Design, Web Application Programming, Programming Design

## WORK EXPERIENCE

**Software Engineer (part-time)**, Computer Information Management Division, NTU, Taiwan 2025.6-Present

- Developed and integrated an AI-powered course comment review system with Ollama to automatically filter out offensive language, which reducing the workload of human reviewers.
- Evaluated system accuracy by benchmarking AI-generated results against human reviews, ensuring reliability.

**Research Intern**, Department of Sociology, New York University, U.S. 2024.9-2025.06

- Using machining learning LASSO regression model to identify key factor in network formation.
- Developed and improved the LLM-based network prediction method using reasoning, contextual integration, and sequential methods. Supervised by Prof. Byungkyu Lee and David Broska (Stanford University).

**Research Intern**, Human-Centric AI Lab, Northeastern University, U.S. 2024.7-2024.8

- Use LangChain framework to build LLM agents interaction experiments and applied the ERG model to identify key factors influencing the formation of agents' social networks.

**Research Intern**, Academia Sinica, Taiwan 2021.3-2023.8

- Applied survival analysis on dynamic network graphs built from 10.1 million digital interaction records on Facebook, identifying key factors in network formation process.
- Developed a web crawler for food delivery platforms, leveraging parallel computing and API scraping to optimize data retrieval, reducing processing time by 98.3%.

**Teaching Assistant, Statistics**, Department of Business Administration, NTU, Taiwan. 2022.9-2023.6

- Hosting english lab session. Supporting 50+ professionals from 5+ countries in applying regression analysis and hypothesis testing to business decisions.

## PROJECTS

**Times** (HTML, Tailwind CSS, JavaScript)

- Developed a newspaper-style Hugo open-source theme with multilingual support, optimized loading speed, and improved SEO. [\[Link\]](#)

**Pastedown** (IOS App using swift)

- Developed IOS App that converting rich-text, including images, tables in clipboard to markdown format. Integrated with AI to generate alternative text automatically to facility accessibility of markdown document.

**Responsive Personal Blog** (TypeScript, JavaScript, Astro, React, Tailwind CSS, HTML)

- Developed and deployed a responsive personal website on Vercel.
- Implemented advanced features including multilingual support (i18n), infinite scroll for posts, theme toggling (dark/light mode), and SEO optimization for improved visibility. [\[Link\]](#)

## TECHNICAL SKILLS

- Programming & Tools: Python, C/C++, Swift, Git, TypeScript
- Web Development: React, JavaScript, Astro, Tailwind CSS, Figma
- Data & ML: Pandas, NumPy, Seaborn, NLTK, PyTorch, TensorFlow, Keras, LangChain, R

## AWARDS & HONORS

**KTH Scholarship**, KTH University, Sweden (SEK 360,000) - *for students having outstanding achievements in their field.* 2025

**Future Scholars in Humanities and Social Sciences** (32,000 USD) - *for visiting UC Berkeley.* 2023

**Principal Award**, National Taiwan University (Full-year tuition scholarship) - *for students having outstanding achievements.* 2022

**5th Yulin Talent Cultivation Program Scholarship**, Yulin Foundation (20,000 USD) - *for commitment to visually impaired welfare.* 2022

**College Student Research Scholarship**, National Science Committee (1,333 USD) - *for social media network dynamic research* 2022