

# Feng Li

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## Education

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- University of Illinois at Urbana-Champaign** Aug 2021 – Dec 2022  
• *Master of Computer Science*; GPA: 3.70/4.0 Urbana, Illinois
- The Ohio State University** Aug 2017 – Aug 2020  
• *Bachelor of Science in Computer Science & Engineering*; GPA: 3.84/4.0 Columbus, OH  
• *Teaching Assistant* : CSE 2221: Software I

## Publications

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- F. Li* "Climbing the Reasoning Plateau: Integrating the Free Energy Principle and Cognitive Science for Advanced AI Models", **Preprint**
- Y. Feng, *F. Li*, P. Koehn "Toward the Limitation of Code-Switching in Cross-Lingual Transfer", **EMNLP-2022**
- Y. Feng, *F. Li*, Z. Song, B. Zheng, P. Koehn "Learn To Remember: Transformer with Recurrent Memory for Document-level Machine Translation", **NAACL-2022**

## Research Experience

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- Research Assistant**, Westlake University – Hangzhou, China Aug 2020 – Apr 2021
- Spearheaded the development of an online psychological therapy platform, integrating AI-generated response recommendations for therapists to significantly enhance service efficiency.
  - Constructed a robust therapy dialogue dataset through the platform, facilitating future research in areas such as content safety and emotional analysis.
  - Employed advanced statistical models (GPT) combined with a ranker to generate response texts, refining AI-generated content quality through continuous improvement based on therapists' engagement data.
- Research Assistant**, The Ohio State University – Columbus, OH Feb 2019 – Apr 2019
- Designed and implemented a well-visualized tool for a Humanity Entity Recognizer aimed at reducing both time and cost associated with NER annotation tasks.

## Work Experience

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- Software Developer**, AI Rudder Inc. – San Mateo, CA Feb 2023 – Jul 2024
- Developed AI-driven voice agents at AI Rudder, automating tasks such as call transfers, scheduling, and service bookings by integrating LLMs, TTS, and ASR.
  - Designed a framework leveraging LLM function calling to decompose human agent operating procedures into dynamic sub-prompts, enhancing the docility and trustworthiness of voice agents.
  - Engineered a Gin-based API, accelerating integration speed and efficiency in connecting voice agents with external tools.
- Software Developer Intern**, ByteDance – Beijing, China Apr 2021 – Jul 2021
- Developed a system to ensure the continuous availability of a state-of-the-art online CV model, enabling the automated execution of test sets for corresponding models at predefined intervals with integrated failure alerts.
  - Designed and implemented a testing pipeline that streamlines the construction of test sets for models and enables one-click deployment.
- Front-end Developer Intern**, Bank of America Merrill Lynch – Pennington, NJ Jun 2019 – Aug 2019
- Redesigned and maintained the communication center website, enhancing accessibility and team collaboration through internal web applications.

## Skills

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**Coursework:** Seminar in Cognitive Science, Medical Neuroscience, Advanced Topics in NLP, Applied ML

**Languages:** Python, Go, C#, C, Go, Ruby, JavaScript, MongoDB, SQL, Bash

**Framework:** Pytorch, Transformers, Django, Flask, Gin