

Hsiang(Sean) Fu

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Education

Arizona State University
Ph.D. Computer Science

Aug 2025 – May 2030
Advisor: Dr. Heni Ben Amor

The University of Texas at Austin
B.S. Informatics (Human-Centered Data Science)

Aug 2022 - Dec 2024
Advisor: Dr Abhijit Mishra

Research/Teaching Experience

Interactive Robotics Lab

Graduate Research Assistant

Tempe, AZ

Aug 2025 - Present

- Performing research under the supervision of Dr. Heni Ben Amor.
- Explored concepts of in-context learning, and its applications for a wide domain of tasks, including:
 - Pattern Completion – completing patterns in numerical sequences based on seen before pattern.
 - Sequence Prediction – making future predictions on time-series based sequences.
 - Binary & Image Classification – classifying challenging qualitative data and visual information using example-driven inference.
 - Numerical Optimization – reimplementations of the lab's previous works (SAS-Prompt).
 - Reinforcement Learning – reimplementations and improvement of the lab's previous works (ProPS, ProPS+)

Arizona State University

Tempe, AZ

Graduate Teaching Assistant: CSE 101

Aug 2025 - Present

- Assisted students in understanding foundational concepts in computer science and programming.
- Managed and facilitated three weekly lab sessions, providing in-person guidance and support to students.

Industry Experience

Strauss Center of International Security and Law

Austin, TX

Texas Cybersecurity Clinic Student Fellow

May 2023 - May 2024

- Assessed and strengthened clients' cybersecurity postures through comprehensive vulnerability assessments and implementation of security controls.
- Applied cybersecurity principles in real-world environments for small and mid-sized businesses and nonprofits across Austin.

ZhongTai Securities

Shanghai, China

Data Analyst Post Intern

May 2023 - Jul 2023

- Built and automated ETL workflows for unstructured financial datasets, improving data ingestion efficiency and data quality.
- Applied the Brinson attribution model to evaluate stock selection and industry allocation performance.
- Designed and optimized SQL-based data pipelines to support real-time analytics and reporting workflows.
- Extracted and transformed data from diverse sources into structured formats to support strategy analysis and insight generation.

Dell Technologies

Shanghai, China

Product Testing Intern

May 2021 - Aug 2021

- Collaborated with cross-functional teams to develop Python-based automation scripts for data validation and system testing in large-scale environments.
- Delivered a high-performing end-of-internship project, receiving positive feedback for both the results and technical presentation to internship mentors.

Projects

Introduction to In-Context Learning

Interactive Robotics Lab, Arizona State University

- Developing *Introduction to In-Context Learning*, a tutorial website featuring demos that help users understand core ICL concepts.
- Website: <https://intro-to-icl.github.io/>

ReVision: Building On-Device Tiny Vision Language Models

iSchool, The University of Texas at Austin

- Built a tiny on-device vision-language (multimodal) model for task-oriented instruction processing.
- Developed an automated data pipeline and trained on 1.7K images and 39K queries using models like BLIP, LLaMA, and LLaVA.
- Optimized scalability, efficiency, and privacy for multimodal systems on mobile devices.
- Paper: <https://arxiv.org/abs/2502.14780>
- Accepted to IJCNLP-AACL 2025

Publications

Selected

- [1] A. Mishra, H. Fu, M. Li, et al. "ReVision: A Dataset and Baseline VLM for Privacy-Preserving Task-Oriented Visual Instruction Rewriting". *2025 Association for Computational Linguistics (IJCNLP-AACL 2025)*.