

Kenan Tang
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EDUCATION

University of California, Santa Barbara, *Ph.D. Computer Science*, Santa Barbara, CA, Expected 2028

- Projects: Machine learning for science (with a focus on Type 1 Diabetes), LLM writing assistants

University of Chicago, *B.S. Computer Science, B.A. Physics*, Chicago, IL, June 2023

- Graduated *summa cum laude*, GPA 3.94/4.00

PUBLICATIONS & PREPRINTS

- **Kenan Tang***, Peiyang Song*, Yao Qin, Xifeng Yan, *Creative and Context-Aware Translation of East Asian Idioms with GPT-4*, EMNLP Findings 2024 and the Workshop on Asian Translation (WAT) 2024
- Michael van der Naald, Abhi Singh, Toka Eid, **Kenan Tang**, Juan J. de Pablo, Heinrich M. Jaeger, *Minimally Rigid Clusters in Dense Suspension Flow*, Nature Physics 2024
- **Kenan Tang**, *PETCI: A Parallel English Translation Dataset of Chinese Idioms*, Arxiv 2022

EXPERIENCE

University of California, Santa Barbara, *Research Assistant*, Santa Barbara, CA, March 2023 – Present

- Worked on time-series forecasting of blood glucose data using ARIMA, SVGP, and Transformers
- Performed data analysis on the T1DEXI dataset
- Submitted 2 abstracts to the American Diabetes Association's (ADA's) 84th Scientific Sessions
- Implemented an improvement of the Tidepool Loop algorithm that reduced time-below-range (TBR) by 5%

University of Chicago CHAI Lab, *Research Assistant*, Chicago, IL, August 2021 – June 2022

- Scraped rules from top 10,000 subreddits; collected comments at different time to identify removed comments
- Prepared data for future analysis on cross-community toxic comment detection

Microsoft, *Software Engineer Intern*, Suzhou, China, June 2021 – August 2021

- Investigated different chatbot architectures such as DuConv, KdConv, PLATO-2, and BlenderBot2
- Crawled text from websites and extracted knowledge graphs which are used for the chatbot
- Developed a chatbot API using PyTorch and Flask in a Docker container on a Linux server

University of Chicago, *Research Assistant*, Chicago, IL, February 2020 – September 2020

- Made 100+ simulations of dense suspension systems on UChicago Midway HPC using C++ and bash scripts
- Analyzed rigid clusters within the system for each data point using Python scripts on Midway HPC

LEADERSHIP & ACTIVITIES

Japanese Translation Team, *Translator and Technical Support*, China, August 2019 – September 2021

- Developed a QQ Mini-Program using JS, HTML, and CSS for task management benefiting 2,000+ translators
- Translated Japanese live-streaming videos into Chinese with Aegisub for 1,000,000+ subscribers on Bilibili

SKILLS & LANGUAGES

Programming Languages: Python, C, R, C++, JavaScript

Packages: PyTorch, transformers, nltk, CoreNLP, wandb

Languages: English (Duolingo 160/160, TOEFL 115/120), Chinese (Native), Japanese (JLPT N1 137/180), Korean

PERSONAL WEBSITES

GitHub: <https://github.com/kenantang>

LinkedIn: <https://www.linkedin.com/in/kenan-tang-1682a11a0/>