

JIXUAN CHEN

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No.3 Babao East Street, Nanjing, China

EDUCATION

High School Affiliated to Nanjing Normal University (NSFZ)

Nanjing, China
Sep 2018 – Jun 2021

Nanjing University (NJU)

B.E. in Software Engineering (SE)

Nanjing, China
Sep 2021 - Present

- **GPA:** 92/100 (Top 2%), Overall ranking in the 1st and 2nd year 1/252, National Scholarship (2022)
- **Relevant courses:** Database Management(96), Data Structures and Algorithm Analysis(94), Foundations of Data Science(94.6), AI Fundamentals and Industrial Developments(92), Discrete Mathematical Structures(94), Foundation of Computing System(98), etc.
- President, College Student Council; Advanced Individual in Student Union Organization (2022)

The Hong Kong University of Science and Technology (HKUST)

Exchange student in Computer Science (CS)

Hong Kong, China
Jan 2024 – May 2024

EXPERIENCE

HKU NLP Group

Research Assistant

Hong Kong, China

Supervised by Prof. Tao Yu

Jul 2023 – present

Research Keywords: llm-powered web agents, pretraining

- Index and search over 6TB of source code to find missing dependencies and extract test cases for sample code
- Be part of Executable Language Grounding ([XLang](#)) Lab to work on benchmarking LLM as agents
- Submitted a paper *DesktopEnv: A Unified Realistic Desktop Environment for Universal Vision-Language Digital Agents* to **Forty-first International Conference on Machine Learning (ICML 2024)**

NLP Group of Nanjing University

Undergraduate Research Intern

Sep 2022 – Aug 2023

Research Keywords: Neural Machine Translation, Domain Adaptation

- Developed a well-performing ancient-modern Chinese translation system based on a Siku-BERT initialized transformer
- Constructed pseudo-parallel corpus to achieve data augmentation by performing back translation of collected monolingual corpus and solved domain problems
- Provided user interface of the optimized translation system
- One paper *Dictionary-enhanced Traditional Chinese Machine Translation* received **Best Paper Award** at China Conference on Machine Translation (CCMT 2023)

Supervised by Dr. Jiahuan Li

Jun 2022 – Aug 2022

Research Keywords: PLM for NMT

- Conducted in-depth research on Enhancing Machine Translation Using Large-scale Pre-trained Language Models (PLM)
- Completed an exhaustive case study on the translation effects of current PLM for NMT models and compared their multi-dimensional performances in Enhanced Machine Translation
- Current PLM methods yield little improvement on target syntactics; Deeper fusion of PLM results in higher word sense accuracy.

HONORS & AWARDS

- 2022 **National Scholarship** (Top 0.2% nationwide) Oct 2022
- Kwok Shek Pik Yung Scholarship Special Award (RMB 10,000) Oct 2023
- Sixth Place in the algorithm group of EL Programming Competition, NJU Jun 2022
- Third Place in the software group of EL Programming Competition, NJU (App Development) Jun 2022
- Advanced Individual in New Media Work, NJU 2022 Jun 2022
- Outstanding student of Nanjing University Dec 2022, 2023

EXPERTISE AND INTERESTS

- **Languages:** Fluent in English (TOEFL iBT 96), Native speaker of Mandarin
- **Skills:** C/C++, Python, Bash, Git, Latex, Markdown, PyTorch, Java, HTML/CSS, Fairseq
- **Interests:** Calligraphy (Gr. 6), Video Editing, Table Tennis