ZHOU, EJ

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EDUCATION BACKGROUND

Oxford University, *Visiting Student for Year* — Oxfordshire, UK
St Hilda's College, major in Computer Science and Linguistics — *Oct 2023 - Jun 2024(Expected)*

Cornell University, *Exchange Student for Semester* — Ithaca, NY, USA
College of Engineering, GPA: **4.082**/4.3   Relevant Courses: — *Jan 2023 - May 2023*
  Computational Linguistics (A) *Language and Information* (A)
  Independent Reading & Research (A+)

Zhejiang University, *Bachelor of Science (Honored) in Computer Science* — Hangzhou, China
ChuKochen Honors College — *Sept 2020 - Jun 2024(Expected)*

- Overall GPA: **3.99**/4.0; 91.21/100   Major GPA: **4.0**/4.0   GRE: 330 + AW4.0
- Ranking: **Top 2%**   Courses include:
  Probability and Mathematical Science(99), *Fundamentals of Data Structure*(99)

PUBLICATION

[1] **Yijie Zhou**, Kejian Shi, Wencai Zhang, Yixin Liu, Yilun Zhao, Arman Cohan: ***ODSum: New Benchmarks for Open Domain Multi-Document Summarization***, in submission to EACL 2024.

[2] Yulong Chen, Huajian Zhang, **Yijie Zhou**, Xuefeng Bai, Yueguan Wang, Ming Zhong, Jianhao Yan, Yafu Li, Judy Li, Michael Zhu and Yue Zhang: ***Revisiting Cross-Lingual Summarization: A Corpus-based Study and A New Benchmark with Improvement Annotation***, **accepted by ACL 2023 Long**.

EXPERIENCE

Yale University — Apr 2023 - Oct 2023
Project: ODSum, new benchmark for Open-domain MDS [paper] — *New Haven, CT*
Research Assistant in YaleNLP Lab, on-site — *Advisor: Arman Cohan*

- Worked on bench-marking the open-domain multi-document summarization task, employed various models from pretrained models to LLMs and examined the performance, and proposed methods to better robustness.
- Single first author work.

Cornell University — Feb 2023 - Jun 2023
Project: Persuasive Chatbox — *Ithaca, NY, USA*
Research Assistant, on-site — *CommCollabTech Lab*

- Designed an LLM-driven persuasive agent capable of detecting factual inaccuracies during conversations, and providing accurate information supported by evidence, deployed on Telegram and Reddit.

Westlake University — Sept 2022 - Feb 2023
Project: Building ConvSumX, an improved XLS corpus [paper] — *Hangzhou, China*
Research Intern in WestLakeNLP Lab, on-site — *Advisor: Yue Zhang*

- Led the Corpus-Annotation and Corpus-Evaluation team in the creation of the corpus. Conducted experiments by fine-tuning the mBART model using various corpora on NVIDIA A100 GPUs, while implementing shell scripts to significantly reduce workload. Delivered comprehensive analysis of both existing XLS corpora and experimental outcomes.

Hangzhou City Brain — Jul 2022 - Sept 2022
Internship, on-site — *Hangzhou, China*

- Contributed to the execution and maintenance of the IRS system test, improving overall software quality.

CONTEST AND EVENT

OxGen 2023 Summit & Oxford Generative AI Hackathon *Participant & Hacker* Oct 2023
Developed an open-source software package utilizing LLMs to automatically generate summaries of news articles from websites. Implemented data visualization of extracted event details and casualties on an interactive map. Special Mention Award.

ACL 2023 *Participant* Jul 2023
Showcased our work of *ConvSumX*.

The 9th INTEL CUP Parallel Application Challenge *Team Leader & Finalist* Aug 2021
Optimized the Weighted Back-Projection algorithm by using techniques including multi-thread paralleling, compiler optimization, and cache alignment. Achieved 3,431% acceleration.

SELECTED COURSE-WORKS

Mini-SQL [GitHub] May 2022 - Jun 2022
Coursework for *Database System; score **98**/100*
Developed a compact single-user SQL engine (DBMS) supporting fundamental database operations and implemented an index manager for record handling using a custom-designed B+-tree data structure.

Parallel Computing and Neural Networks Jul 2021 - Aug 2021
Coursework for *Integrate Practice for Courses I: Supercomputing; score **97**/100*
Enhanced GEMM performance by over 100x using OpenMP and MPI on a computing cluster. Practiced PyTorch on various downstream tasks like object recognition.

AWARDS AND HONORS

- First-class Scholarship, Zhejiang University 2022
- Excellence Honors Scholarship, Zhejiang University *(Top 1% in Honors College)* 2021
- First-class Scholarship, Zhejiang University 2021
- Hengyi Scholarship *(5/~24,000 in ZJU)* 2021

MISSCELLANEOUS

Polyglot
- Learning languages is my passion and what drew my interest in NLP. I am native in *Wu* and *Mandarin*, TOEFL **114**/120 for *English*, TFU 84/100 for *French*, conversation level in *Japanese* and this year I'm devoting myself to *Russian*.
- I'm part of the global polyglot community. I was a member of *Cornell Language Expansion Program* and I attend annually the *Polyglot Conference* and the *Language Event*.

Cinemaphile
- Viewed over 1k films. Attended the *76e Festival de Cannes* and other film festivals.
- Frequently writes film critiques on self-media and the *Tide*, a student-run magazine. One of my film reviews (link), An experimental short film that I was in (*In Some Nights*).

Music:
- Plays Guqin. Trained in *WestLake Qin Society* since 10. Served as the Vice President of the *ZJU Qin Society* in 2021, meanwhile worked as a Guqin teacher for one year.
- A regular at local indie-rock scene and practicing guitar at the moment.

Leadership: Vice president of the *CKC Student Union* in 2021. Director of the *2021 CKC New Year's Gala*.

Sports: Once won a medal in the university tennis tournament (2021). Practicing kendo at the moment.