ZHOUXIANG FANG

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EDUCATION

Johns Hopkins University, *M.S.E in Computer Science*   *Aug 2023 - Dec 2024*
- GPA: 4.00 / 4.00

Zhejiang University, *B.E. in Computer Science*   *Sep 2019 - June 2023*
- GPA: 3.84 / 4.00 (top 10%)

RESEARCH EXPERIENCE

Quantifying "Learning" in In-Context Learning (ICL) via Substitution Ciphers   *June 2024 - Oct 2024*
First Author
- advised by Daniel Khashabi
- explore the dual modes (task retrieval and task learning) of ICL by introducing *ICL ciphers*, a new class of task reformulations based on substitution ciphers
- find quantified evidence of task learning across different datasets, models and scales
- conduct probing experiments for understanding models' internal representations

Benchmarking LLMs on Answering and Explaining Challenging Medical Questions   *Sep 2023 - June 2024*
Co-first Author
- advised by Mark Dredze and Hanjie Chen
- collect two challenging medical QA datasets with high-quality explanations
- test seven LLMs on proposed datasets with different prompts (e.g. Zero-shot, Few-shot, CoT...)
- evaluate model generated explanations with automatic metrics and measure their alignment with human judgment
- *Accepted to NAACL 2025*

How to Generate Popular Post Headlines on Social Media   *Jul 2022 - Oct 2022*
First Author
- analyze the influence of trends and personal styles on post popularity on social media
- propose a novel model to generate trend-aware and personalized headlines on social media based on BART and a novel pretraining strategy to boost the model
- validate effectiveness and superiority of the method on real-world datasets
- *Accepted to AI OPEN 2024*

AWARDS

Outstanding Graduate of Zhejiang University   *May 2023*
Zhejiang University Scholarship - Second Prize   *Nov 2022*

PROGRAMMING

C/C++, Python, HTML, CSS, JavaScript, Julia

EXTRACURRICULAR

Amateur Photographer
Video Creator