# ZHOUXIANG FANG

🏠 https://zhouxiangfang.github.io ✉ zhouxiangfang1@gmail.com
📍Baltimore 📞(1)-667-421-9685

## EDUCATION

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

**Zhejiang University,** *B.S. in Artificial Intelligence*          *Sep 2019 - June 2023*
- GPA: 3.83 / 4.00 ( top 10% )

**National College Entrance Examination in China**          *June 2019*
- Top 0.1% in 315k students

## RESEARCH EXPERIENCE

**Quantifying "Learning" in In-Context Learning (ICL) via Substitution Ciphers**          *June 2024 - Oct 2024*
*First Author*
- advised by Daniel Khashabi
- explored the dual modes (task retrieval and task learning) of ICL by introducing *ICL ciphers*, a new class of task reformulations based on substitution ciphers
- found quantified evidence of task learning across different datasets, models and scales
- conducted probing experiments for understanding models' internal representations
- *Under review for NAACL 2025*

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

**How to Generate Popular Post Headlines on Social Media**          *Jul 2022 - Oct 2022*
*First Author*
- analysed the influence of trends and personal styles on post popularity on social media
- proposed 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
- validated effectiveness and superiority of the method on real-world datasets
- *Accepted by 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**