

Zijie Zhou

CONTACT INFORMATION	College of Artificial Intelligence China University of Petroleum, Beijing No.18, Fuxue Road, Changping District, Beijing, China	Voice: (+86) 188 0102 9366 E-mail: zhouzijie67@outlook.com
RESEARCH INTERESTS	Large language models, natural language processing, AI for social sciences, multi-agent systems	
EDUCATION	China University of Petroleum, Beijing , Beijing, China M.S., Artificial Intelligence, August 2023 (expected graduation date: June 2026) China University of Petroleum, Beijing , Beijing, China B.A., Artificial Intelligence, June, 2023	
HONORS AND AWARDS	Graduate Study Scholarship, 2023 Undergraduate Study Scholarship, 2022 Technology Innovation Advanced Individual Award, 2022 and 2023 Honorable Mention, Interdisciplinary Contest In Modeling, 2021 Outstanding Undergraduate Student Cadre, 2020	
ACADEMIC EXPERIENCE	China University of Petroleum, Beijing , Beijing, China <i>Application of Large Language Models</i> May, 2024 - present Designed and fine-tuned multiple large language models for applications in campus services and party-building knowledge Q&A systems. Customized training significantly enhanced the models accuracy in answering questions and improved service efficiency. <i>Intelligent Control of Wellbore Trajectory</i> January, 2023 - May, 2024 Developed and optimized a real-time decision-making algorithm based on LWD data, improving the accuracy of wellbore trajectory tracking. Pioneered and validated an innovative intelligent drilling navigation algorithm, enhancing obstacle avoidance during the drilling process. Additionally, built a wellbore trajectory simulation system to support algorithm validation and optimization. <i>Teaching Assistant</i> August, 2023 - present Head teaching assistant. Duties included shared administrative responsibilities with faculty instructor, fielding of all student inquiries, and oversight of undergraduate student teaching assistants and graders. <ul style="list-style-type: none">• Principle of artificial intelligence, Fall 2023 and Fall 2024.• Python for data analysis, Spring 2024.	
PAPERS IN PREPARATION	Zhou, H., Zhu, D., Zhou, Z., Dai, X. A Novel Directional Drilling Decision Method Based on 3D Spatial Wide-Angle Detection Mechanism. Zhao, Y., Zhu, D., Wang, F., Dai, X., Jiao, H., Zhou, Z. An Intelligent Drilling Guide Algorithm Design Framework Based on High Interactive Learning Mechanism.	

CONFERENCE PRESENTATIONS	Wang, L., Zhou, Z., Shi, G., Guo, J., Liu, Z. (2024). Small Object Detection Based on Bidirectional Feature Fusion and Multi-scale Distillation. In: Wand, M., Malinovsk, K., Schmidhuber, J., Tetko, I.V. (eds) Artificial Neural Networks and Machine Learning ICANN 2024. ICANN 2024. Lecture Notes in Computer Science, vol 15017. Springer, Cham.
PROFESSIONAL EXPERIENCE	<p>Innovation Business Center of Yidu Cloud, Beijing, China <i>Algorithm Intern</i> February, 2023 - August, 2023 Collected and analyzed disease prediction data; applied machine learning to forecast patient outcomes; reproduced research findings and built a patient records database.</p> <p>PERCENT Technology, International Business Department, Beijing, China <i>Machine Learning Research Assistant</i> August, 2022 - February, 2023 Standardized multilingual datasets and optimized Chinese-English sentiment models; improved machine translation models and developed a sentiment classification framework.</p> <p>Kunlun Digital Technology, Sales and Retail Business Department, Beijing, China <i>Computer Vision Intern</i> May, 2022 - August, 2022 Conducted AI video recognition research and authored a 24-page report; designed a cashback scenario for gas station retail stores, enhancing customer engagement.</p>
COMPUTER SKILLS	<ul style="list-style-type: none"> • Machine Learning: Deployment and fine-tuning of large language models (LLaMA, GLM). • Programming Languages: Python, C/C++, with experience in NumPy, Matplotlib, and Pandas. • Algorithms: Knowledge of neural networks, optimization, and model application in real-world tasks. • Tools: Git, Docker, LangChain, ChatGPT, Microsoft Office, L^AT_EX. • Operating Systems: Unix/Linux, MacOS, Windows.