

# Zheng Long Chen

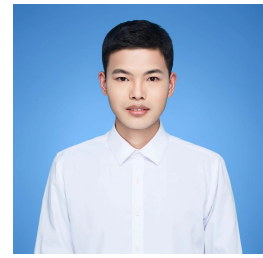
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📍 Hangzhou, China 🏠 May 2000

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🏠 Xinyang, Henan



## Professional Experience

- 2025/06 – 2025/09** 📌 **AI Engineer - Cloud AI Ops, Huawei Hangzhou Research Institute**  
Designed MCP-Zero for hierarchical tool querying, reducing context overhead by 98% across 200+ servers  
Built Kubernetes workflows for node failure diagnosis; integrated RAG + embeddings for automated documentation retrieval
- 2025/04 – 2025/06** 📌 **Research Assistant - Generative Sampling, Zhenhua Petroleum Chengdu Research Center**  
Engineered adaptive sampler mapping error distribution → probability density, reducing training data by 83% while maintaining accuracy  
Achieved 20 35% lower prediction error vs. random sampling
- 2024/10 – 2024/11** 📌 **NLP Intern - LLM Fine-tuning, TAL Education Group**  
Constructed Chain-of-Thought datasets for math reasoning; fine-tuned Qwen2-7B with LoRA  
Implemented semantic deduplication; improved accuracy by 9% on 2,500 math problems
- 2024/09 – 2025/03** 📌 **Generative Characterization of Oil-Gas Reservoirs, Chinese Academy of Sciences**  
Proposed a Discrete Neural Operator with Adaptive Sampling for transient Darcy flow surrogate modeling (paper under review, first author)  
Achieved 24.3% lower error than Residual Attention U-Net; adaptive sampling improved generalization by 35% over random sampling
- 2023/11 – 2024/03** 📌 **Generative Large Model for Hydrocarbon Sweet Spots, Chinese Academy of Sciences**  
Developed dataset augmentation via sublinear expectation theory to enable small-sample training  
Filed patent: "A Small-Sample Learning Method Based on Mathematical Expectation"
- 2023/09 – 2024/09** 📌 **Intelligent Surrogate Model for Imbalanced Data, Qingdao Soft Control Co.**  
Addressed class imbalance in rubber-tire manufacturing via synthetic oversampling and sublinear-expectation-based noise modeling  
Improved classification accuracy by 13% using logistic regression under maximal distribution

## Education

- 2023/09 – 2026/06** 📌 **M.S. in Operations Research and Cybernetics, Shandong University**  
GPA: 3.6/4.0 (Top 10%)  
Advisor: Prof. Zhao Zhang  
Research: Uncertainty Quantification, Reservoir Simulation, Generative AI for PDEs

## Education (continued)

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2019/09 – 2023/06    **■ B.S. in Information and Computing Science, Nanjing University of Information Science and Technology**  
GPA: 3.8/4.0 (Top 2%)  
Advisor: Prof. Shun Jie Li  
Thesis Focus: Dynamical Systems, Numerical Methods for Differential Equations

## Technical Skills

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Languages    **■** Python, C++, Go, MATLAB, SQL  
ML/DL        **■** PyTorch, Scikit-learn, CNN/RNN/Transformer, Diffusion, PINN, DeepONet, Flow Models  
LLM Tech    **■** Prompt Engineering, SFT, LoRA, RAG, MCP-based Agents  
Tools        **■** Git, Docker, Linux, Kubernetes, Pandas, Vim

## Miscellaneous Experience

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### Awards and Achievements

ICM            **■ Finalist**, Interdisciplinary Contest in Modeling  
National Mathematical Contest    **■ 1st Prize**, National Mathematical Contest in Modeling (Jiangsu)  
Blue Bridge Cup    **■ 1st Prize**, Blue Bridge Cup Algorithm Competition (Jiangsu)  
National Mathematics    **■ 2nd Prize**, National Mathematics Competition (Category A, Jiangsu)  
Undergraduate Thesis    **■ Outstanding Undergraduate Thesis Team**, Jiangsu Province  
Scholarship    **■ First-Class Scholarship (NUIST ×3), Second-Class Scholarship (SDU)**  
Other         **■ Outstanding Psychological Committee Member**, SDU