

Seeking internships in AI Agent Development/Test/Evaluation, ML/DL/DS, Full-Stack Engineering

2+ years work experience (US/International); 4+ years research/programming experience; 280+ stars on GitHub.

EDUCATION

- Ph.D. Student in AI for Geosciences** **University of Texas at Austin** 2024 – Expected: May 2029
TA for 1,000+ students (Rating: 4.5/5.0) | GPA: 3.7/4.0
Invited Reviewer for *Planetary and Space Sciences* (Elsevier, Scopus Q2)
- B.S. in Geosciences (Honors Class)** **University of Science and Technology of China** 2020 – 2024
Nominated for the **Highest Honor** for USTC undergraduates (one of the two ESS School nominees)
Founded one of the largest student clubs, grew from 0 to 1,300+ members. [\[News\]](#)

WORK EXPERIENCE

- AI Intern, AI Agent Knowledge Base Evaluation** **PineAI** (Singapore) | Remote | Jul. 2025 – Aug. 2025
- Implemented multi-dimensional evaluation system from scratch for PineAgent's RAG knowledge base.
 - Developed data sanitization module removing 2,000+ PII entries and noise from 1,000+ call sessions.
 - Extracted 3,000+ Q&A pairs (knowledge/method/strategy) from call sessions to form the evaluation dataset.
 - Deployed concurrent LLM-as-judge + rule-based engine, measuring P/R/F1 to enable RL optimization.
- Full-Stack Intern, LLM Text Processing System** **ZaiwenAI** | Beijing, China | Jun. 2025 – Jul. 2025
- Fulfilled multiple roles in the startup, from design to deployment. [\[Code\]](#) (non-company business) [\[Demo\]](#)
 - Developed 3-module MVP: LLM-footprint detection, removal, and plagiarism checking for researchers.
 - Built a RESTful backend with FastAPI and an asynchronous task queue with Celery + Redis.
 - Created a Vue.js frontend with 9-format document upload, SSE-based real-time LLM response streaming.
- Research Assistant, ML Model/Multi-agent Development** **UT-Austin** | Austin, TX | Aug. 2025 – Present
- Project Admin, High-Performance Computing Allocation** **NSF NCAR** | Remote | Aug. 2025 – Present
- Proposed and secured NSF NCAR's 1k GPU + 22k CPU hours high-performance computing allocation.
 - Integrating machine learning parameter calibration for a SOTA physics-based land surface model (Noah-MP).
 - Enhancing efficiency of traditional Monte Carlo parameter calibration with a scikit-learn framework.
 - Developing a multi-expert AI agent system for automated parameterization for physics-based climate models.
- Visiting Scholar, High Altitude Observatory** **NSF NCAR** | Boulder, CO | Jul. 2023 – Dec. 2023
- Simulated global atmospheric wave propagation, detecting 2 distinct wave modes from Hunga-Tonga eruption.
 - Integrated simulation/observation via wavelet analysis, advancing understanding of extreme volcanic events.
 - First-authored presentation at a NASA Science Workshop and AGU Meeting. [\[Code\]](#) [\[Abstract\]](#)
- Full-Stack Developer, UT01 Navigation Page** **Independent** | Hybrid | Jun. 2025 – Present
- Consolidated 80+ campus resources across 11 categories based on student navigation patterns. [\[Code\]](#) [\[Website\]](#)
 - Drove 10,800+ visits through SEO techniques; optimized HTML/SCSS frontend for cross-device compatibility.

PUBLICATIONS

- Wu, K.**, He, C., & Yang, Z.-L.* (in preparation). Noah-Agent: A Multi-Expert AI Agent Framework for Automated Parameterization and Validation of Large-Scale Fortran Climate Models [\[Preprint\]](#)
- Wu, K.**, Yi, W.*, Xue, X.*, Reid, I., & Lu, M. (2024). Diurnal and Seasonal Variations of Meteor Speed and Arrival Angle Observed by Mengcheng Meteor Radar. *JGR: Space Physics*. [\[Paper\]](#) [\[Code\]](#) [\[Data\]](#)
- Wu, K.***, Xu, X., Jiang, J., & Shen, A. (2024). A Summary Report on the Space Physics Practical Education in 2022. *Reviews of Geophysics and Planetary Physics*. [\[Paper\]](#) [\[Code\]](#) [\[News\]](#)

SKILLS

- Languages & Frameworks:** Python, FastAPI, JavaScript, React, SQL, MATLAB
- Infrastructure & Tools:** Docker, HPC, AWS/GCP, Redis, Git

