

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
GPA: 3.9/4.0 | TA for 1,000+ students (Rating: 4.5/5.0)
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 Development **UT-Austin** | Austin, TX | Aug. 2025 – Present

Project Admin, High-Performance Computing Allocation **NSF NCAR** | Remote | Aug. 2025 – Present

- Integrated machine learning parameter calibration for a SOTA physics-based land surface model (Noah-MP).
- Enhanced efficiency of traditional Monte Carlo parameter calibration with a scikit-learn framework.
- Proposed and secured NSF NCAR's 1k GPU + 22k CPU hours high-performance computing allocation.

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 over 100K-Line Scientific Codebases.
- 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

