



Ph.D. Positions in Trustworthy and Multi-Agent GeoAI

Group of Dr. Peng Luo · Incoming Assistant Professor, August 2026

School of Earth, Environment, and Sustainability · University of Iowa

I will join the School of Earth, Environment, and Sustainability (SEES) at the University of Iowa as a tenure-track Assistant Professor in August 2026, and I am building a new research group at the intersection of Geographic Information Science (GIScience), Geospatial Artificial Intelligence (GeoAI), and spatial data science. I am recruiting **two fully funded Ph.D. students** to begin in **Fall 2027**. Each position is fully funded, including a competitive stipend, full tuition coverage, and benefits.

Research Directions

Position 1 — Trustworthy GeoAI. Developing reliable, interpretable, and uncertainty-aware geospatial AI. Topics include spatial explicit modeling, geospatial explainable AI (XAI), and uncertainty quantification of GeoAI models for spatial prediction and association analysis.

Position 2 — Multi-Agent GeoAI Modeling. Building LLM-driven, multi-agent frameworks for automated geospatial model discovery, reasoning, and scalable, self-evolving spatial analysis.

Who Should Apply

- A Bachelor's or Master's degree in GIScience, computer science, statistics, remote sensing, geography, or a closely related field.
- Strong programming skills (e.g., Python) and a genuine interest in spatial data science and AI.
- Self-motivated, curious, and able to communicate clearly in written and spoken English. Prior research experience is a plus but is not required.

What I Offer

- Full funding (stipend, tuition, and benefits) for the duration of the Ph.D.
- Close, individualized mentorship and a clear path toward an academic or research career.
- An active international collaboration network and support for conference travel, computing resources, and publications.

How to Apply

Email me at peng-luo@uiowa.edu with (1) your CV, (2) transcripts, and (3) a brief statement of research interests indicating which position interests you. Please use the subject line "Prospective Ph.D. — [your name]." Informal inquiries are welcome. Formal applications are submitted through the University of Iowa Graduate College; admissions details are available at grad.uiowa.edu.

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