

PhD Positions

AI and Machine Learning

Department of Computer Science Charles V. Schaefer, Jr. School of Engineering & Science Stevens Institute of Technology

Introduction to Research Lab

The AI and Machine Learning Lab at Stevens Institute of Technology is seeking motivated PhD students to join our research team. Our lab focuses on cutting-edge research at the intersection of artificial intelligence, data science, and computational health. We are committed to advancing both fundamental methodologies and real-world applications, fostering a collaborative and inclusive environment that encourages innovation, critical thinking, and interdisciplinary exploration. You can find more information at: https://yue-ning.github.io/.

Research Topics

Current and prospective research topics in our group include, but are not limited to:

- [Topic 1] **Foundations of AI** such as graph neural networks, AI reasoning, agentic AI, causal inference, and domain adaptation
- [Topic 2] Data Analytics such as multi-modal learning and information reciprocity
- [Topic 3] **Use-Inspired AI** such as computational methods for biomedical discovery and social sciences
- [Topic 4] **Trustworthy and interpretable AI** such as privacy-aware algorithms and mechanistic interpretability

Qualifications

Basic Qualifications:

- Bachelor's degree in Computer Science, Data Science, Electrical Engineering, Biomedical Engineering, or a related field
- Strong programming skills (e.g., Python, R, or similar languages)
- Demonstrated research experience or coursework in machine learning, data analysis, or applied statistics
- Excellent written and verbal communication skills

Preferred Qualifications:

- Master's degree in a related field
- Prior experience with deep learning frameworks (e.g., PyTorch, TensorFlow)
- Background in health informatics, natural language processing, or computational modeling
- Strong publication record or evidence of independent research
- Familiarity with large-scale data processing and cloud computing tools



How to Apply

Step 1: Submit this Google Form with required and optional information such as your name, email, degree, GPA, CV, personal statement, transcripts, and contact of references. If you cannot access this Google form, please submit these materials by email to yue.ning@stevens.edu with subject "PhD application – [Term] – [Your Name]".

Step 2: Applications will be reviewed on a rolling basis until positions are filled. Prospective students should also submit a formal application through the Stevens Institute of Technology PhD admissions portal: https://gradadmissions.stevens.edu/apply/.

Why Stevens?

Stevens Institute of Technology, located in Hoboken, New Jersey—just minutes away from New York City—offers a vibrant, collaborative research environment with strong industry connections and an emphasis on innovation and entrepreneurship. Our PhD students benefit from close mentorship, access to state-of-the-art computing resources, interdisciplinary collaborations, and strong placement records in academia, industry, and research institutions.



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