

# Join Our Team: Multiple PhD Openings in Computer Science at the University of Houston

Dr. Jianyi Yang (<https://jyang-ai.github.io/>), incoming Assistant Professor in the [Department of Computer Science](#) at the [University of Houston](#), is seeking PhD students in Computer Science starting in Spring 2025 or Fall 2025. Full financial support will be provided.

**Bio of PI:** Dr. Jianyi Yang will join the Department of Computer Science at the University of Houston as an Assistant Professor in Fall 2024. He will be jointly appointed at the Department of Electrical and Computer Engineering of UH. Currently, He is a postdoctoral researcher at UC Riverside, and concurrently a visitor at Caltech. His research goal is to advance responsible and efficient AI and computing. Recently, he is focusing on addressing the social concerns of AI, particularly in terms of sustainability, privacy, fairness, and safety issues. His research has been published in top conferences (NeurIPS, ICML, SIGMETRICS, AAAI, INFOCOM, etc.).

## Research Directions:

Dr. Yang's research topics span both fundamental methods and real-world problems. He will bring a wealth of expertise and mentorship to his students in the following directions.

- **Machine Learning and Artificial Intelligence** (trustworthy ML, learning-augmented algorithms, efficient large AI models, etc.)
- **Decision Intelligence and Optimization** (reinforcement learning, online optimization/control, online allocation algorithms, etc.)
- **Cyber Physical Systems and Critical Infrastructures** (resource management in data centers, energy systems and smart city applications, etc.)
- **Cloud/Edge Computing and Networks** (energy harvesting systems, edge AI, distributed computing, etc.)

## Qualifications:

The candidates are required to hold a Bachelor's degree in Computer Science or related areas. Importantly, candidates should have a strong motivation and interest in AI research and have the passion for high-quality research works. No prior experience is required but preference will be given to the candidates with one or two of the following aspects: solid foundation in mathematics (optimization, statistics, ML basics), proficiency in implementing research ideas, related research project experiences.

**About University of Houston:**

Established in 1927, the University of Houston (UH) is a Carnegie R1 institution, recognized for its highest research activity. Ranked among the top doctoral research universities in the US, UH offers a vibrant academic environment and cutting-edge research opportunities. UH is ranked 69th in Engineering according to US News. Additionally, according to ARWU, UH is ranked 63-95 in the US and 201-300 worldwide.

**About Houston:**

Houston is the most populous city in the U.S. state of Texas and in the Southern United States. The city is famous for its cultural diversity which creates a rich tapestry of experiences, events, and festivals, making the city an exciting and dynamic place to live. Whether you're into arts, sports, or culinary experiences, Houston has something for everyone.