Postdoctoral and Ph.D. Positions in Shen Group at Texas A&M University

Are you passionate about artificial intelligence, machine learning, and bioinformatics? Do you want to contribute to groundbreaking AI research that has a real impact on science and health? If so, we invite you to join our dynamic research team as a postdoctoral researcher or Ph.D. student! Postdoc positions are available ASAP and Fall 2026 PhD applications are due Feb. 1.

About Our Research:

Our group, led by Prof. Yang Shen (https://shen-lab.github.io), focuses on several exciting areas, including:

- **Optimization and AI/ML:** Large Language Models (LLMs) for reasoning and planning; Intelligent agents and multi-agent systems; LLM and knowledge graph integration; Multimodal representation learning and generative models (text, image, graph, geometry); Reinforcement learning for adaptive decision-making and design; Trustworthiness, explainability, generalizability & uncertainty quantification.
- **Biomolecular Prediction and Design:** Protein language, geometry, dynamics, interaction, and function prediction; Genetic variant effects: prediction and explanation. Protein design and drug design; Applications to engineered biomolecular systems.
- **Disease Modeling and Therapeutic Design:** Virtual cell modeling and perturbation effects; Integrating molecular-level multi-modalities and systems-level multi-omics into predictive and generative models for mechanistic insights and therapeutic strategies.

Why Join Us?

- **Innovative Research:** Be part of a team that develops and assesses cutting-edge computational methods, advancing the fields of AI4Science and AI4Health.
- **Interdisciplinary Approach:** Work at the intersection of AI/ML, biology, and medicine to address fundamental questions and drive innovation.
- **Professional Growth:** Gain valuable experience and skills in a supportive and dynamic research environment, preparing you for a successful career in academia or industry. Our alumni are in top universities, major tech companies, and fast-growing startups.
- **Environment:** Texas A&M University ranks #12 (tie) in US News Best Engineering Schools (2024), offering a collaborative environment, a diverse community, and a strong alumni network. College Station ranks #2 in Forbes Best Small Places for Business and Careers (2019) and is conveniently located near Houston, Austin, and Dallas.

Who We Are Looking For:

We are seeking motivated and talented individuals with a background in machine learning, statistics, computational biology, bioinformatics, cheminformatics, or related fields. Ideal candidates should have strong analytical skills, programming skills, a solid publication record, a passion for interdisciplinary research, and a desire to make significant contributions to the field.

How to Apply:

If you are interested in joining our team, please send your CV, a cover letter detailing your research interests and experience, and (if postdoc) contact information for three references to yshen@tamu.edu, with the subject: PhD/Postdoc Application: FirstName LastName at Affiliation.

Join us in pushing the boundaries of science and making a real impact at the interface of AI, Science, and Health!