

Openings for PhD & Postdoc & Research Assistant in NUS



Dr. Xiaohan XING's lab from NUS Medicine & ECE has multiple openings for **PhD students, postdoctoral fellows, visiting PhD, research assistants, interns**, etc. We are dedicated to developing next-generation AI systems for healthcare through multimodal learning, medical foundation models, and integrative biomedical data analysis.

About NUS:

The National University of Singapore (NUS) is an internationally renowned research University. In 2025/26, NUS ranks 17th in the Times Higher Education World University Rankings, and 8th in the QS World University Rankings.

Supervisor Profile:

Dr. Xiaohan XING is a tenure-track Assistant Professor in the Department of Diagnostic Radiology & ECE at NUS. Prior to joining NUS, she was a postdoctoral fellow at Stanford University. She received her Ph.D. degree from the Department of Electronic Engineering at The Chinese University of Hong Kong in 2021. Her research focuses on Biomedical AI, including medical imaging, medical image analysis, multimodal learning (with an emphasis on integrating histopathology and genomics data), and AI for precision medicine. She has published more than 40 peer-reviewed papers in leading journals and conferences, including *Proceedings of IEEE*, *TMI*, *Medical Image Analysis*, *MICCAI*, *CVPR*, and *ICCV*. She received several awards, including the *MICCAI Young Scientist Award* in 2022 and the *ASTRO Best of Physics Award* in 2024.

Recent Research Areas:

1. **Multi-modal AI for Precision Medicine.**
 - Integration of histopathology, genomics, radiology images, and medical reports.
 - Multimodal learning for precision diagnosis and personalized medicine.
2. **AI for Spatial Biology and Biomedical Discovery.**
 - Multi-omics integration.
 - Biology-informed AI for biomarker and mechanism discovery.
3. **Foundation Models and Medical AI Agents.**
 - Biomedical foundation models and multimodal reasoning.
 - Efficient adaptation of foundation models for biomedical applications.
 - Medical AI copilots and human-AI collaboration systems.

Opening Details:

1. PhD student

- **Stand out for PhD positions**
 - Strong self-motivation and passion.
 - Preferred backgrounds include CS, EE, BME, Data Science, Bioinformatics, and related areas.
 - Research experience in Machine Learning, AI4Science, or biomedical AI. Applicants preferably have first-authored publications in leading journals or top-tier conferences in related areas.
 - Strong problem-solving and programming skills.
 - Good English reading, writing, and oral communication skills. General English proficiency requirements for PhD admission: TOEFL ≥ 90 , IELTS ≥ 6.5 .
- **How to Apply**
 - Please send your CV (grade, ranking, research experience included), undergraduate transcripts, papers, 1 page research statement to show what you want to pursue during your PhD, and other supporting materials, to xinglab.joinus@gmail.com. Email subject can be 'PhD Application - Your School – Your Name'.
 - In addition, please fill out this brief Google Form in case I miss your case: <https://forms.gle/hR7ZUZEJQh2dTUdo7>
 - If it is a good match after I read your materials, I will contact you and arrange an interview.
 - Note: if you are Singaporean/PR, or if you are okay with 3 years service obligation i.e. working at Singapore after graduation, say Postdoc in our lab or FTE at local companies, the admission bar could be slightly lower.

2. Postdoc

➤ Job Description

- The competitive salary (~5750 SGD per month) is provided with NUS benefits, which can be discussed if you are exceptionally excellent.
- Apart from publishing the high-impact research work, parts of your job are to mentor junior students and contribute to grant application, in which your mentorship and skills for writing proposal shall be developed.
- I will help you broaden networks via establishing collaborations with experts, engaging in workshop/challenge organization.

➤ Stand out for Postdoc positions

- Good publication record and research experience in medical AI.
- Collaboration experience with clinicians.
- Duration is generally 2 years, and at least 1 year if you are exceptionally excellent.

➤ How to apply

- Please send your CV (educational and research experience included), papers, 1-2 page research statement to show what you want to pursue during your Postdoc (preferred), and other supporting materials (such as slides to show your research experience), to xinglab.joinus@gmail.com. Email subject can be '**Postdoc - Your School – Name**'.
- In addition, please fill out this brief Google Form in case I miss your case: <https://forms.gle/45Yo1LwPx7rddJLz9>.

3. Our lab is also recruiting **visiting PhD students, research assistants, and interns**. Interested applicants are welcome to contact us at xinglab.joinus@gmail.com.