

Xicheng Yang

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EXPERIENCE

UW-Madison Hu CIPT Lab

Mar. 2024 – Jul. 2025

Undergraduate Student Researcher

Onsite

- Conducted research on programmable immunoprobiotics, splittable bio-systems, personalized cancer vaccines, and checkpoint-blockade immunotherapy.
- Performed cell culture and in vivo experiments, including tumor modeling and resection, IVIS imaging, and protein immunoassays.
- Managed data analysis and figure production, and contributed to multiple publications.
- Accepted for oral presentation on this research at the *2025 Biomedical Engineering Society (BMES) Annual Meeting*

Nanjing Medical University

May. 2022 – Present

Student Researcher (Summer & Winter Breaks)

Hybrid

- Conducted research with graduate students at NJMU Pharmaceutical Analysis Department, contributed to a multi-year project focused on discovering PSD95–nNOS uncoupling agents for stroke and neurodegenerative disease treatment.
- Gained experience in bioconjugation chemistry, protein production workflows, and fluorescence-based assays.
- Supported the preparation of multiple publications, including experimental design, data analysis, figure generation, and revision responses.
- Delivered an oral presentation on this research at the *2025 National Symposium on Functional and Bioactive Plant Compounds Research and Resource Mining*

PUBLICATIONS

- Yuan, S., **Yang, X.**, et al. (2025). Programmable immunoprobiotics orchestrate anti-tumor immune response with Pin1 inhibition for pancreatic cancer treatment. Accepted by *PNAS*.
- Peng, T.[#], Lu, X.[#], Jin, Y.[#], **Yang, X.**, et al. (2025). One-stone-four-birds strategy to construct magnetic mesoporous nano-ratio fluorescence sensor for efficient discovery of PSD95–nNOS uncouplers. *Chemical Engineering Journal*, 509, 161330. <https://doi.org/10.1016/j.cej.2025.161330>
- Yuan, S., Bremmer, A., **Yang, X.**, et al. (2025). Microbiota metabolism and immune regulation: from mechanisms to immunotherapeutic applications in cancer. Submitted to *Seminars in Cancer Biology*.
- Yuan, S., Bremmer, A., **Yang, X.**, et al. (2024). Splittable systems in biomedical applications. *Biomaterials Science*, 12(16), 4103–4116. <https://doi.org/10.1039/d4bm00709c>
- Li, Z., Wang, Y., Mo, F., Wolter, T., Hong, R., Barrett, A., Richmond, N., Liu, F., Chen, Y., **Yang, X.**, et al. (2025). Engineering pyroptotic vesicles as personalized cancer vaccines. *Nature Nanotechnology*. <https://doi.org/10.1038/s41565-025-01931-2>

EDUCATION

University of Wisconsin-Madison

May, 2027

B.S., Biomedical Engineering, Certificate in Computer Science

Madison, WI

SKILLS & INTERESTS

- **Dry Lab Skills:**
 - Programming: Python, Matlab, Java, Bash; Systems & DevOps.
 - Scientific Communication & Design: BioRender, Adobe Photoshop, Lightroom, Illustrator.
- **Wet Lab Skills:**
 - Molecular cloning and bacterial culture; protein expression, purification, and characterization; cell culture and in vivo tumor modeling; fluorescence-based assays and imaging.
- **Interests:** Photography; Backpacking; Solo travel; Self-hosting.