

Xinyin Zhu

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EDUCATION

Case Western Reserve University

Cleveland, OH

Master of Science in Pathology (GPA: 4.0 in Year 1)

Aug 2024 – May 2026 (expected)

Relevant courses: Basic Pathological Mechanisms, Histopathology, Histology & Ultrastructure, and Molecular & Cell Biology.

Future coursework: Quantitative Genetics & Genomics, Computational Human Genomics & Epigenomics, Technologies in Bioinformatics, and Statistical Methods (R).

Jinan University

Guangzhou, China

Bachelor of Medicine & Bachelor of Surgery (MBBS, GPA: 3.55)

Sept 2019 – Jun 2024

U.S. CLINICAL EXPERIENCE

University of Wisconsin, Department of Pathology and Laboratory Medicine

Madison, WI

Observer

May 2025 – Jun 2025

- Engaged in diverse pathology services including forensic and medical autopsies, genitourinary, head and neck, and hematopathology sign-outs; interpreted toxicology and serum protein electrophoresis results; participated in CP quality control and transfusion medicine patient management and case reviews.

University Hospitals Cleveland Medical Center, Pathology Department

Cleveland, OH

Observer

Dec 2024 – Jan 2025

- Rotated across frozen section, autopsy, microbiology, clinical chemistry, thoracic, ENT, GYN, and GI pathology.
- Shadowed faculty and residents during daily sign-out, case discussions, and grossing; gained insight into pathology residency and diagnostic reasoning.

MetroHealth Medical Center, Pathology Department

Cleveland, OH

Observer

Apr 2025

- Developed a systematic approach to diagnosis through daily, one-on-one case review and sign-out with pathologists.
- Built a strong foundation in the workup of common and essential pathologies through training in microscopic evaluation, case discussion, and clinical correlation.
- Observed clinical chemistry and transfusion, enhancing understanding of workflow in clinical laboratory settings.

University of Wisconsin, Department of Pathology and Laboratory Medicine

Madison, WI

Observer

May 2025 – Jun 2025

- Competitively selected from over 150 applicants; rotated in both AP and CP.
- Engaged in diverse pathology services including forensic and medical autopsies, genitourinary, head and neck, and hematopathology sign-outs; interpreted toxicology and serum protein electrophoresis results; participated in CP quality control and transfusion medicine patient management and case reviews.
- Attended educational conferences for residents and medical students; delivered a presentation on thrombotic thrombocytopenic purpura (TTP) during the transfusion rotation.

RESEARCH EXPERIENCE

Case Western Reserve University, School of Medicine

Cleveland, OH

Research Assistant – Obeng Lab

Oct 2024 – Present

- Research focus: Tumor immunology and immunotherapy, with an emphasis on stem-like progenitor CD8⁺ T cells, which generate the T cell proliferation burst upon immune checkpoint therapy.
- Drafting a review manuscript on the development, function, and localization of stem-like T cells for the pathology capstone project, with a presentation scheduled for July.
- Co-authoring a review on molecular mechanisms of stem-like T cells for an immunology journal, currently under peer review.
- Trained in lab techniques: cell culture, Western blot, flow cytometry, animal models, and data analysis.

Case Western Reserve University, Histopathology Course Project

Cleveland, OH

Worked on a course project

Apr 2025

- Authored a comprehensive 20-page review paper on membranous nephropathy covering epidemiology, pathogenesis, histopathological features, diagnostic updates, and treatment.
- Received an A grade after review by two pathologists; strengthened skills in literature synthesis and academic writing.

Jinan University School of Medicine, Department of Epidemiology

Guangzhou, China

Research Assistant

Apr 2023 – Mar 2024

- Applied a novel statistical method in a study on possible mediators and moderators of the association between stress and sleep quality among college students.
- Led volunteer recruitment, dataset management (SPSS/SAS), and presented findings in English to the evaluation committee.

SERVICE & LEADERSHIP

Case Western Reserve University, Center for Civic Engagement & Learning

Cleveland, OH

Volunteer

Oct 2024 – Present

- Volunteering at the CWRU community pantry and MedWish Medworks, enhancing community engagement by supporting populations in need through food and medical supply distribution.

Case Western Reserve University, International Student Resources & Engagement

Cleveland, OH

Participant

Jul 2025

- Selected for the OISRE (The Office of International Student Resources and Engagement) Summer Bootcamp focused on academic, professional, and personal development for students.

Case Western Reserve University, International Teaching Assistant Presentation Skills (UNIV 402C)

Cleveland, OH

Presenter

Oct 2024 – Nov 2024

- Delivered presentations about clinical test result interpretation to students and faculty, promoting well-being and enhancing public speaking skills by effectively conveying complex medical information in an accessible manner.

Jinan University School of Medicine

Guangzhou, China

Teaching Assistant

Nov 2020 – Jul 2022

- Assisted in Human Physiology, Human Health & Disease, and Nobel Prize Analysis courses for 100+ students.
- Created study guides and materials, clarified complex medical concepts, and graded assignments.

The First Affiliated Hospital of Jinan University

Guangzhou, China

Volunteer

Sept 2020 – Jan 2022

- Assisted patients with navigation and registration, enhancing patient-centered communication skills.

OTHERS

Standardized Tests:

- Occupational English Test (OET): Pass
- USMLE Step 1: Pass

Languages: Mandarin (Native), Cantonese (Native), and English (Full professional proficiency)