

Ruoran (Ryan) Xu
ruoran.x@wustl.edu / (952) 212 5780

Education

Washington University in St. Louis

Bachelor of Arts, May 2024

GPA: 3.86/4.00

MCAT: 518

St. Louis, MO

Major: Biology (with concentration in Microbiology)

Clinical and Research Experience

Eye Physicians of Virginia

Ophthalmic Technician

DMV Region

Nov 2025-Present

- Conduct preliminary ophthalmic examinations on visual acuity, intraocular pressure, and diagnostic testing (OCT, visual fields, fundus photography, topography, IOL biometry), documenting patient findings in the Athena EMR
- Prepare patients for treatments and minor procedures, assist physicians during exams, anticipate provider needs to maintain clinic workflow, and sterilize instruments while ensuring exam rooms remain stocked and organized
- Communicate clearly with diverse patient populations, including Spanish-speaking, elderly, and disabled patients, helping explain procedures, address concerns, and support patient understanding during visits

ScribeAmerica (Reston Hospital, Stone Springs Hospital, Children's National Hospital)

Medical Scribe

DMV Region

Sep 2024 – Nov 2025

- Worked closely with physicians, nurses, and other medical professionals to coordinate care for an average of 25 patients per shift in a fast-paced emergency department, contributing to efficient clinical workflow
- Demonstrated strong multitasking ability by documenting patient encounters in real time including histories, physical exams, assessments, and treatment plans while maintaining accuracy and thoroughness
- Engaged with patients throughout the clinical workflow, developing empathy and a deeper understanding of patient perspectives, particularly in moments of acute stress or vulnerability

Tyson's Freestanding Emergency Department

Clinical Observer

Vienna, VA

Mar 2025 - Jul 2025

- Shadowed attending physician gaining insight into differential diagnosis, treatment strategies, clinical decision-making, and rationale for selecting diagnostic exams and interventions
- Actively engaged in diagnostic reasoning alongside the attending physician by identifying appropriate exams and tests to rule out conditions, and reviewing results to understand diagnostic conclusions and treatment rationale
- Observed physician interactions with diverse patient populations, developing an understanding of bedside communication and appreciation for the multifaceted responsibilities of emergency care

Genetics Department at Washington University in St. Louis School of Medicine

Undergraduate Researcher

St. Louis, MO

Jan 2023 - Dec 2023

- This project sought to develop a method to track changes in chromatin methylation over time, allowing researchers to observe important epigenetic shifts during cell development and differentiation
- Modified proteins for use in a novel technique combining EpiDamID-mediated DNA methylation and MulTI-Tag methyl mark-reading methods and performed nickel purification using sterile wet lab technique
- Validated each protein part for efficacy via transposase activity analysis and specificity for methylation using dot-blot and Western-blot techniques

Molecular Microbiology Department at Washington University in St. Louis School of Medicine

Undergraduate Researcher

St. Louis, MO

Jun 2022 - Aug 2022

- This project aimed to improve understanding of how *L. pneumophila* toxins are recognized and secreted by the bacterium through the identification of internal signaling sequences on specific toxins
- Performed independent research screening *L. pneumophila* effectors/toxins for internal signaling sequences
- Designed and ordered 700+ primers to amplify the effector for insertion into a plasmid and used these constructs to create inverted effector-BlaM fusion clones to test for effector secretion

Emergency Department at Barnes Jewish/Christian Hospital

Clinical Observer

St. Louis, MO

June-August 2022

- Followed physicians of different statuses in the emergency department to observe their daily work and patient interactions and gain insight on the role of a physician

- Acquired knowledge of internal healthcare operations and patient care processes, further enhancing personal understanding of the challenges and rewards of working in a fast-paced medical environment

Volunteer / Leadership Experience

Immigrant Home English Learning Program

St. Louis, MO

English Tutor

April 2024-present

- Provided practical English tutoring to an adult immigrant from Chile, equipping her with the communication skills needed to navigate real-world situations, most notably enabling her to confidently speak with the other driver and resolve a car accident emergency on her own despite the high stress and unfamiliar circumstances
- Developed a year-long one-on-one mentoring relationship that supported her adjustment to life in the US, guiding her through cultural differences and access to community resources while significantly improving her conversational English and reading comprehension, fostering both independence and confidence
- Dedicated approximately four hours per week to tutoring, during which we have completed two ESL workbooks and four fictional books to strengthen her English reading, comprehension, and pronunciation skills through consistent, applied practice

Washington University in St. Louis Badminton Club

St. Louis, MO

Senior Advisor

October 2021-May 2024

- Attended practices four times a week as a senior advisor for the WashU Badminton Club, organizing and leading training sessions, coordinating practice logistics, arranging transportation for tournaments, and offering strategic guidance and encouragement to members during competitions
- Fostered a strong sense of community by setting up team-building activities such as club meals and informal practice meetups, supporting both athletic growth and social connection within the club
- Earned strong competitive results, including 1st place in men's doubles and mixed doubles at the 2023 Spring St. Louis Open, 1st place in men's doubles at the 2023 Fall St. Louis Open, and 2nd place in men's doubles at the 2022 Spring Purdue Open

Washington University in St. Louis Asian American Association

St. Louis, MO

Philanthropy Lead

April 2021-May 2024

- Organized 20+ volunteers at Asian American Association's Night Market, assisting with the setup of cultural booths and event logistics to ensure a smooth and welcoming experience for 2,000 attendees
- Helped manage food distribution at the event's food stands, engaging with guests and contributing to the celebration and sharing of Asian culture through cuisine and community interaction
- Facilitated the FAAfamily Program, a cultural exchange initiative that grouped members from diverse background into cohorts to foster cross-cultural understanding and community through social events and shared experiences

University of Minnesota Valorant Esports

Minneapolis, MN

Maroon Team Head Coach

September 2022-May 2023

- Served as head coach for the maroon team of the University of Minnesota Valorant Esports organization, leading VOD reviews, developing team strategies and compositions, and creating structured practice plans to improve overall performance and in-game coordination
- Worked closely with individual players to build confidence, refine decision-making, and foster a supportive team environment, contributing to both player growth and cohesive team dynamics

Extracurricular Activities

Washington University in St. Louis Climbing Club

St. Louis, MO

Club Member

January 2022-May 2024

- Participated in climbing club activities three times a week, regularly collaborating with peers to solve climbing problems, improve technique, and support each other's progress on challenging routes
- Helped coordinate transportation to and from climbing gyms and fostered community beyond practice by organizing informal climbing sessions and social gatherings with club members

Washington University in St. Louis Fencing Club

St. Louis, MO

Club Member

January-May 2022

- Attended weekly practices with the WashU Fencing Club, coaching peers in saber technique, footwork, strategy, and form while fostering a supportive and fun environment for new and experienced fencers

Washington University in St. Louis Quizbowl Club

St. Louis, MO

Club Member

October 2020-May 2022

- Attended weekly practices and competed in online tournaments with team members, developing quick recall, teamwork, and a broad academic knowledge across a range of subjects
- Participated in club bonding activities such as game nights, contributing to a collaborative and engaging team environment outside of competition

Skills

Languages: Mandarin (native), English (native), Spanish (limited working proficiency)

Computer: MS office, coding languages (Java, Assembly, HTML)

Miscellaneous: Fine manual skills, record keeping, and wet-lab techniques