

Yunyi Ru

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EDUCATION

Johns Hopkins University, Bloomberg School of Public Health

ScM in Molecular Microbiology and Immunology

Aug. 2023 - May 2025 (Anticipated)

Baltimore, MD

- **GPA:** 3.8/4.0
- **Scholarship:** Master's tuition scholarship

Duke Kunshan University/Duke University Dual Degree

B.S. in Cell and Molecular Biology

Aug. 2019 - May 2023

Kunshan, China/Durham, NC

- **GPA:** 3.86/4.0 (*cum laude*)

RESEARCH EXPERIENCE

Johns Hopkins University the Pekosz Lab

Graduate Researcher

Oct. 2023 - Present

Baltimore, MD

- Conduct monolayer and primary cell culture; execute microscopy, plaque assays, and plaque reduction neutralization test assays to characterize respiratory syncytial virus (RSV).
- Isolate currently circulating RSV strains from clinical samples on various cell lines.
- Conduct sequence and structural analysis of circulating RSV strains using various computational methods.

Duke Kunshan University the Lin Lab

Undergraduate Researcher

Oct. 2021 – May 2023

Kunshan, China

- Performed surface water sampling, gDNA extraction and purification, qPCR, and 16s rRNA sequencing to measure antibiotic resistant gene prevalence in a local shallow lake over the year.
- Gathered and interpreted data by multivariate analysis using R.

iGEM (International Genetically Engineered Machine) Competition

Team Leader

Dec. 2021 – Oct. 2022

Kunshan, China

- Designed engineered a bacteria strain by molecular cloning and protein expression.
- Hosted journal clubs on campus and gave scientific talks at local middle schools.
- Won silver medal at the 2022 Grand Jamboree.

WORK AND TEACHING EXPERIENCE

Johns Hopkins University R³ISE Center for Innovation in Science Education

Research Assistant

Oct. 2023 - Present

Baltimore, MD

- Create written content and graphics that emphasize important topics related to responsible scientific practices and communication for social media platforms such as X and Instagram.
- Analyze social media metrics to assess effectiveness and made necessary adjustments based on findings.

Duke Kunshan University Academic Resource Center

Teaching Assistant

Oct. 2021 – Dec. 2021

Kunshan, China

- Instructed *Integrated Science: Biology* laboratory sessions.
- Provided clear explanations and demonstrations of experimental procedures to students.

HOB Biotech Group Suzhou Co., Ltd

R&D Intern

July 2021 – Aug. 2021

Suzhou, China

- Conducted allergen sample extraction utilizing protein extraction techniques, freeze-drying, SDS-PAGE, and Western blot analysis.
- Produced products with increased purity.

SKILLS AND INTERESTS

- **Computational Skills:** Proficient in R, command line, and Snapgene for bioinformatics, statistical analysis, and data visualization; Git and Github for version control.
- **Languages:** English, Mandarin, Suzhou dialect.
- **Standardized Test Scores:** GRE General: 323 (V: 157, Q: 166, W: 4.0). TOEFL iBT: 110.
- **Interests:** Digital art, electric guitar, photography.