

Yuyang (Jerry) Wang
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Education

Columbia University, New York, NY
Master of Science in Biostatistics

09/2025 – Present

University of Rochester, Rochester, NY
Triple Major: Data Science, Economics, and Business (Information Systems)
Minor: Computer Science | Cluster: Visual Production
Dean's List: Spring 2022, Fall 2022, Spring 2024

09/2021 – 05/2025

Technical Skills

Languages: Python, R, SQL, Java, STATA
Tools: AutoDock, Biopython, Git, Docker, Excel, Tableau
Techniques: A/B Testing, Machine Learning, Data Visualization, Genomic Data Processing

Research Experience

Cong Lab, Stanford University, Stanford, CA
Research Assistant (Computational Biology / CRISPR)

06/2025 – Present

- Working on SSAP-based genome editing technologies using the DAISY platform.
- Supporting data pre-processing and alignment pipelines for CRISPR screen analysis.
- Using Biopython and custom R scripts to model editing efficiency from high-throughput sequencing data.
- Contributing to experiment design and computational protocol documentation.

SmartRocket Research, East China Normal University, Shanghai, China
Research Assistant under Prof. Geguang Pu

08/2024 – 01/2025

- Developed SmartRocket, a tool for testing C++ code using real-world and open-source libraries.
- Ran performance testing on Qtbase, OpenCV, SQLite, PostgreSQL, and industrial codebases.
- Conducted code coverage evaluation and data analysis for optimization insights.

RSV Drug Discovery, Emory University, Atlanta, GA
Research Intern under Prof. Bo Liang

06/2024 – 08/2024

- Used ChEMBL database to identify candidate compounds against RSV polymerase.
- Performed binding energy calculations using AutoDock Vina and AutoDock 4.2.
- Supported molecular screening and in-silico modeling of RdRP inhibitors.

High-Frequency Trading Research, Fudan University, Shanghai, China
Research Assistant under Prof. Zhiguo Xiao

06/2023 – 09/2023

- Analyzed 1.8M+ Chinese futures trades; built a 60x20 accuracy matrix with 70% success rate.
- Applied XGBoost, LSTM, and Random Forest for strategy development and performance evaluation.

Professional Experience

Business Data Analyst Intern, Roche Pharma China, Shanghai
Department of Finance, Strategy and Operational Excellence

05/2024 – 08/2024

- Conducted commercial data modeling and insight extraction for cross-functional teams.
- Facilitated analysis requests across sales, marketing, and product divisions.

Lab Teaching Assistant, Computer Science, Univ. of Rochester

02/2023 – 12/2023

- Led Python programming workshops and gave one-on-one coding support.
- Graded assignments and provided structured feedback.