

ANUSHKA AGRAWAL

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EDUCATION

The University of Chicago	Chicago, IL — June 2026
B.S. in Computer Science; B.S. in Biological Sciences (Computational Biology track)	
GPA: 3.7/4.0	
Honors: Quad Undergraduate Research Scholar 2023-2024; Metcalf Fellowship Awardee 2024-2025	

The Pingry School	Basking Ridge, NJ — May 2021
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SKILLS

Programming Languages	Python, JavaScript, R, C/C++, SQL, Shell/Bash, MATLAB
Frameworks & Tools	PyTorch, TensorFlow, React, Node.js, Scikit-learn, NumPy, Pandas
Cloud & Infrastructure	AWS (EC2, S3), Git, Linux, HPC, Conda, SnakeMake, Hugging Face

EXPERIENCE

AI/ML Intern — Chan Zuckerberg Biohub Chicago	June 2025 – present
• Led deployment of Virtual CRISPR software, a machine learning tool that predicts CRISPR screen outcomes	
• Built Python pipelines for handling 100+ GB of single-cell sequencing data	
• Optimized data processing workflows, reducing runtime through parallelization and caching	
Computational Drug Discovery Intern — Opal Therapeutics	January 2025 – June 2025
• Developed a full-stack Python-based platform to predict novel therapeutic targets for gynecological diseases	
• Integrated 200+ complex biological datasets to create a unified analysis framework, employing advanced data wrangling and cross-validation methods in AWS	
Bioinformatics Intern — New York Genome Center	June 2024 – August 2024
• Engineered scalable pipelines for processing terabyte-scale genomic datasets, optimizing workflows for chromatin accessibility analysis	
• Implemented automated monitoring and error handling for pipeline reliability	
• Optimized database queries and data structures, improving query performance by 30%	
Quantitative Microscopy Researcher, Munro Lab — UChicago	September 2023 – June 2024
• Employed quantitative spinning disk microscopy to mathematically model cytoskeletal dynamics in <i>C. elegans</i>	
• Presented findings at the 2024 Quad Undergraduate Research Symposium	

PROJECTS

Predictive Statistical Modeling using Cardiovascular Data	March 2024
• Built and evaluated GLMs to examine cardiovascular outcomes after kidney transplantation (unpublished report)	
Structural Analysis of Metastatic Cancer Factor	September 2023 – June 2024
• "Chromosomal Instability Promotes cGAS-Mediated Cytosolic DNA Response in Metastatic Cancer", <i>The FASEB Journal</i>	

LEADERSHIP

President, Women's Club Ice Hockey — UChicago	June 2023 – present
• Organize recruiting events, transportation, and ice time, and oversee recruitment of 40+ new members	
• Introduced a Diversity and Inclusion initiative and raised \$2k to eliminate the financial barrier of hockey gear costs	