

# ANUSHKA AGRAWAL

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## EDUCATION

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### 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

## SKILLS

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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

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### 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 *C. elegans*
- Presented findings at the 2024 Quad Undergraduate Research Symposium

## PROJECTS

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### 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- Built and evaluated GLMs to examine cardiovascular outcomes after kidney transplantation ([unpublished report](#))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", *The FASEB Journal*

## LEADERSHIP

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### 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