

**Noah S. Kahn**  
noahkahn@uchicago.edu  
in/noahsk | noahsilaskahn.com

---

## EDUCATION

### University of Chicago

*B.S. in Molecular Engineering, Bioengineering Track*  
*Specialized Minor in Quantum Information Science*

Chicago, IL

*Expected June 2027*

Selected Graduate Coursework: Quantitative Systems Biology, Foundations of Quantum Optics

Courses TA'd: Fundamentals of Physiology, Fundamentals of Developmental Biology, Microbial and Human Cell Biology, Mathematical Modeling for Pre-Med Students

Activities: Chess Club (V.P.), Delta Kappa Epsilon (Secretary), Genehackers, Partners in Health Engage

---

## RESEARCH

### Tay Lab at the University of Chicago

- Sole undergraduate researcher in a 20+ person systems biology lab, fabricating and operating microfluidic devices for live-cell experiments and quantitative biological assays.
- Applied mammalian cell culture techniques and developed computer vision pipelines for quantitative analysis of live-cell microfluidic triculture experiments.

---

## EXPERIENCE

### Fogarty Innovation

*Lefteroff Internship (incoming)*

*June 2026 - August 2026*

- Selected for a project with Enspectra Health involving hardware & software work on a novel skin imaging system combining multiphoton laser scanning and reflectance confocal microscopy.

### University of Chicago

*Quantitative Bioscience Center, Teaching Assistant*

December 2025 - Present

Chicago, IL

- Tutoring undergraduate and graduate students in the chemistry & biology department in R and Python with related software, including RStudio, SnapGene, BLAST, and others.
- Hosting office hours, sitting in on lectures, grading assignments, running select labs, lecturing in labs, designing posters, writing quizzes.

### Abundance Foundation

*Program Assistant*

Hybrid (Chicago, Boston, Kigali)

June 2025 - Present

- Working with Partners in Health and Harvard's Department of Global Health & Social Medicine.

### Southwest Airlines

*Summer Intern*

Nashville, TN

June 2022 - August 2022

- Built Python-based automation systems for PPE inventory and barcode labeling workflows, improving operational efficiency for ramp equipment tracking.

---

## SELECTED PROJECTS

### AI-Powered Microfluidic Image Analysis (within the Tay Lab)

- Developing a GPU-accelerated image analysis pipeline for live-cell microfluidic triculture experiments using CPSAM segmentation and CUDA-enabled computer vision for cell classification and ML dataset generation.

### Mitochondrial Disease Research (independent)

- Structural bioinformatics research on isolated Complex II deficiency and SDHx-associated diseases using protein modeling, pathogenic variant analysis, AlphaFold, PyMOL, ChimeraX, gnomAD, and ClinVar.

### Genelock, a Novel Antimicrobial (within the Genehackers RSO)

- Wet lab team for Genelock, a synthetic biology platform utilizing programmable DNA sequestration as a novel antimicrobial mechanism: Writing protocols, designing assays, and identifying target sequences using UniProt.

---

## SKILLS

Computational: Python, R, Computer Vision & Image Analysis, CUDA, CPSAM, TensorFlow, PyTorch, NumPy, SciPy, NetworkX, AlphaFold, BLAST, SnapGene, gnomAD, ClinVar, UCSF ChimeraX, PyMOL, Sequence Analysis, RStudio, Jupyter, MATLAB

Experimental: Microfluidics, Cell Culture, Live-Cell Imaging, Microscopy, Basic Wet-Lab Techniques, CRISPR, Genomics, Proteomics, Bulk & scRNA-seq