

## Pierce Hoenigman

[pierce@hoenigman.com](mailto:pierce@hoenigman.com) | [LinkedIn](#) | (415) 629-0070

### EDUCATION

#### The University of Chicago

Bachelor of Science in Biological Sciences, specialization in Quantitative Biology  
Minors in Computer Science & Systems Bioengineering (GPA: 3.99/4.00)

Chicago, IL

September 2021 – June 2025

### HONORS & AWARDS

#### Biological Sciences Research Honors

June 2024

- Awarded \$5000 to conduct Honors Thesis research “Learning Latent Design Spaces in Protein Generative Models” in the Ranganathan lab and partake in Research Honors programming and presentation training

#### DAAD RISE

February 2023

- Awarded €3429 by the German Academic Exchange Service to research mitochondrial membrane protein biogenesis in the Herrmann Lab at RPTU Kaiserslautern-Landau and partake in the RISE conference in Heidelberg

#### Summa cum laude

May 2025

#### Phi Beta Kappa, 2023-2024, 2024-2025

August 2024, May 2025

#### Janet Rowley Scholar of the Biological Sciences, 2023-2024, 2024-2025

August 2024, May 2025

#### Robert Maynard Hutchins Scholar, 2022-2023

August 2023

#### Dean's List 2021-2022, 2022-2023, 2023-2024

August 2022, August 2023, August 2024

### EXPERIENCE & ACTIVITIES

#### Ranganathan Lab

Chicago, IL

*Undergraduate Researcher (at the University of Chicago)*

October 2023 – Present

- Iteratively engineer and optimize more interpretable deep generative models (primarily variational autoencoders) using PyTorch to improve functional control over the design of novel proteins
- Apply Bayesian statistics and information theory to design disentanglement methods for learned representations
- Design toy models to understand the effects of phylogenetic noise on protein statistical inference

#### Quantitative Biosciences Center

Chicago, IL

*Head Teaching Assistant (at the University of Chicago)*

January 2023– December 2024

- Design and administer bioinformatics labs in R and Python for six courses using quantitative and statistical skills
- Give lectures on programming fundamentals and help hundreds of students with coding and statistics questions

#### Department of Computer Science

Chicago, IL

*Grader for Mathematical Foundations of Machine Learning (at the University of Chicago)*

September 2024– December 2024

- Assess and answer questions for over 200 students on mathematical theory underlying machine learning methods

#### Chicago Biomedical Consortium

Chicago, IL

*Entrepreneurship Intern*

July 2024 – September 2024

- Conduct market research and scientific literature review into biotech startups spun out from Chicagoland universities to narrow down pre-seed grant candidates
- Construct Excel database containing comprehensive information on 500+ Chicagoland biotech companies

#### Herrmann Lab

Kaiserslautern, Germany

*Research Intern (at Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau)*

July 2023 – September 2023

- Innovated new methods for protein proximity labeling to elucidate the connection between mitochondrial and peroxisomal protein biogenesis pathways
- Proofread and edited manuscripts now published in Cell Reports for grammar, flow, and clarity

#### Genehackers

Chicago, IL

*Finance Director*

October 2022 – Present

- Successfully secure \$40,000 annually through corporate sponsorships and grant writing and manage student-led synthetic biology research to develop a schistosomiasis vaccine candidate now under animal testing at the NIH
- Organized six guest speaker and networking events with scientific leaders and entrepreneurs in biotech and pharma

### SKILLS

**Computer:** Experienced with Python/PyTorch, R/Tidyverse, C, Bash, Git, Excel/MS Office Suite, PitchBook