

Sho Sniderman Takeshita

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Education

Johns Hopkins University (JHU)

PhD, Molecular Biophysics

2024–Present

University of Maryland (UMD)

BS, Computer Science, Concentration: Biology

2020–2024

Cum Laude

Kyoto University

Study Abroad

Spring 2024

Publications

[Evaluation of De Novo Deep Learning Models on the Protein-Sugar Interactome](#) (2025)

Samuel W. Canner, Lei Lu, Sho S. Takeshita, William DeGrado, Jeffrey J. Gray

In Revision for Glycobiology

[A Membrane-Driven Biochemical Oscillator Tunable by the Volume to Surface Area Ratio](#) (2025)

Jonathan Fischer, Ezra Greenberg, Yue Moon Ying, Sho S. Takeshita, Samuel L. Foley, Margaret E. Johnson
Preprint

Experience

Johnson Lab, JHU

Graduate Researcher

Oct 2024–Present

O'Brien Lab, JHU

Rotation Student

Mar 2025–May 2025

Gray Lab, JHU

Rotation Student

Jan 2025–Mar 2025

CBCB, UMD

Undergraduate Researcher

Aug 2023–Mar 2024

Lab of Molecular and Thermodynamic Modeling, UMD

Undergraduate Researcher

Jan 2023–Mar 2024

Pfizer Computational Biology Group

Computational Biology Intern

Jun 2022–Aug 2022

UMD CBCB

Center for Bioinformatics and Computational Biology (CBCB) Research Intern

Jun 2021–Aug 2021

Personal Projects

Dec 2022: Enzyme Stability Regression

- Determined the melting points of mutated enzymes from a Kaggle dataset.

Nov 2020: Detecting Malaria in Cells

- Fine-tuned malaria parasite detection CNN using Keras/Tensorflow.

Academic Involvement

"Sho and Tell" Founder

Computational Biophysics Journal Club

Aug 2025 - Present

Programming Languages

Advanced: Python, Java, Julia

Intermediate: C++, R, C, OCaml

Beginner: JavaScript, MATLAB

Technical Skills

PyTorch, Pandas, NumPy, AlphaFold3, Chai-1, Scikit-learn, SciPy, Unix, Bash, Git, SQL, Colab, Slurm, NAMD