

Samuel Sledzieski

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| EDUCATION | Massachusetts Institute of Technology | Cambridge, MA |
| | PhD, Electrical Engineering and Computer Science | 2019 – 2024 |
| | <ul style="list-style-type: none">• In Progress• Concentration: Computational biology, machine learning, protein networks, protein structure• Advisor: Dr. Bonnie Berger | |
| | SM, Electrical Engineering and Computer Science | 2019 – 2021 |
| | University of Connecticut | Storrs, CT |
| RESEARCH | BS, Computer Science | 2015 – 2019 |
| | <ul style="list-style-type: none">• Minor in Molecular and Cellular Biology• Concentration: Bioinformatics, Data Science• Advisor: Dr. Mukul Bansal• Magna Cum Laude, Honors Scholar | |
| | Massachusetts Institute of Technology | Cambridge, MA |
| | Research Assistant, Computation and Biology Group | Feb 2020 – Present |
| | Cellarity | Cambridge, MA |
| TEACHING | Machine Learning Intern, Perturbation Biology Group | May 2021 – Aug 2021 |
| | MIT Lincoln Laboratory | Lexington, MA |
| | Summer Research Program, Advanced Lasercom Systems Group | May 2019 – Aug 2019 |
| | University of Connecticut | Storrs, CT |
| | Undergraduate Research Assistant, Computational Biology Lab | Jan 2017 – May 2019 |
| PUBLICATIONS | Software Developer, Jackson Laboratory for Genomic Medicine | Aug 2018 – May 2019 |
| | Undergraduate Research Assistant, Nelson Lab | Oct 2015 – Dec 2016 |
| | Teaching Assistant, Theory of Computation | Spring 2018 |
| | [4] Zaman, Sledzieski , Wu, Bansal, “On the reticulate evolutionary history of the SARS-CoV-2 genome,” Under Review. | |
| | [3] Sledzieski , Singh, Cowen, Berger, “Genome-scale interactome prediction with a sequence-based, structure-aware, interpretable model,” In Press, <i>Cell Systems</i> . | |
| PRESENTATIONS | [2] Sledzieski , Singh, Cowen, Berger, “Sequence-based prediction of protein-protein interactions: a structure-aware interpretable deep learning model,” Conference on Research in Computational Molecular Biology (RECOMB) 2021. | |
| | [1] Sledzieski , Zhang, Mandoiu, Bansal, “TreeFix-TP: Phylogenetic Error Correction for Accurate Reconstruction of Viral Transmission Networks,” Pacific Symposium on Biocomputing (PSB) 2021: Proceedings, pages 119-130. | |
| | Research on Computational Molecular Biology (RECOMB) 2021 Proceedings Talk | Sep 2021 |
| | Cold Spring Harbor Laboratory 2021 Meeting on Network Biology | Mar 2021 |
| | PSB 2021 - Biocomputing and AI for infectious disease modelling and therapeutics | Jan 2021 |
| | RECOMB 2019 Poster Presentation | Apr 2019 |
| | IEEE ICCABS Workshop on Computational Advances for Next Generation Sequencing | Oct 2018 |
| | UConn Fall Frontiers in Undergraduate Research | Oct 2018 |
| | University of Connecticut Bioinformatics Seminar | Mar 2018, Oct 2018 |

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| GRANTS & FELLOWSHIPS | National Science Foundation (NSF) Graduate Research Fellowship | 2021 - 2024 |
| AWARDS | First Place, MIT Intro to Deep Learning Final Project Competition | 2020 |
| | Dean's List, College of Liberal Arts and Sciences, School of Engineering | 2015 – 2019 |
| | Academic Excellence Scholarship, University of Connecticut | 2015 – 2019 |
| | New England Scholar, University of Connecticut | 2017 – 2019 |
| | Third Place Machine Learning, United Health Group Global Hackathon | 2017 |
| | Third Place Overall, HampHack | 2017 |
| | Third Place Overall, HackUConn | 2017 |
| | National Merit Scholarship Finalist | 2014 |
| MEMBERSHIPS & ACTIVITIES | International Society for Computational Biology (ISCB) | |
| | Institute of Electronics Engineers (IEEE) | |
| | Association for Computing Machinery (ACM) | |
| | Tau Beta Pi, Engineering Honor Society (TBII) | |
| | Eta Kappa Nu (IEEE-HKN) | |
| | Upsilon Pi Epsilon, Computer Science Honor Society (UPE) | |
| SELECTED COURSEWORK | <ul style="list-style-type: none"> ▪ Computer Science <ul style="list-style-type: none"> • Algorithms • Artificial Intelligence • Advanced Computational Biology • Computational Geometry • Inference and Information • Machine Learning • Software Engineering ▪ Math and Statistics <ul style="list-style-type: none"> • Calculus I & II, Multivariable Calculus • Statistical Methods • Linear Algebra • Optimization Methods ▪ Biology <ul style="list-style-type: none"> • Biochemistry • Cell Biology • Genetics • Molecular Evolution • Phylogenetics | |

[CV compiled on 2021-08-30]