

# Samuel Sledzieski

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EDUCATION	<b>Massachusetts Institute of Technology</b> MS, PhD in Computer Science In Progress • Advisor: Dr. Bonnie Berger	<b>Cambridge, MA</b> 2019 – 2024
	<b>University of Connecticut</b> BS in Computer Science • Minor in Molecular and Cellular Biology • Concentration: Bioinformatics, Data Science • Advisor: Dr. Mukul Bansal • Magna Cum Laude, Honors Scholar	<b>Storrs, CT</b> 2015 – 2019
RESEARCH EXPERIENCE	<b>Massachusetts Institute of Technology</b> Research Assistant, Computation and Biology Group	<b>Cambridge, MA</b> Feb 2020 – Present
	<b>MIT Lincoln Laboratory</b> Summer Research Program, Advanced Lasercom Systems Group	<b>Lexington, MA</b> May 2019 – Aug 2019
	<b>University of Connecticut</b> Undergraduate Research Assistant, Computational Biology Lab	<b>Storrs, CT</b> Jan 2017 – May 2019
	Software Developer, Jackson Laboratory for Genomic Medicine	Aug 2018 – May 2019
	Undergraduate Research Assistant, Nelson Lab	Oct 2015 – Dec 2016
TEACHING EXPERIENCE	<b>University of Connecticut</b> Teaching Assistant, Theory of Computation	<b>Storrs, CT</b> Spring 2018
PUBLICATIONS	<p>[5] Zaman, <b>Sledzieski</b>, Wu, Bansal, “On the reticulate evolutionary history of the SARS-CoV-2 genome,” In preparation.</p> <p>[4] <b>Sledzieski</b>, Singh, Cowen, Berger, “Genome-scale interactome prediction with a sequence-based, structure-aware, interpretable model,” Under Review, <i>Cell Systems</i>.</p> <p>[3] <b>Sledzieski</b>, 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.</p> <p>[2] Kousi, Boix, Mathys, Park, <b>Sledzieski</b>, Bennett, Tsai, Kellis, “Single-cell mosaicism analysis reveals cell-type-specific somatic mutational burden in AD,” Under Review, <i>Nature</i>.</p> <p>[1] <b>Sledzieski</b>, 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.</p>	
PRESENTATIONS	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
GRANTS & FELLOWSHIPS	National Science Foundation (NSF) Graduate Research Fellowship	2021 - 2024

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<b>AWARDS</b>	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

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<b>MEMBERSHIPS &amp; ACTIVITIES</b>	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)

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<b>SELECTED COURSEWORK</b>	▪ <b>Computer Science</b>
	• Algorithms
	• Artificial Intelligence
	• Advanced Computational Biology
	• Computational Geometry
	• Inference and Information
	• Machine Learning
	• Software Engineering
	▪ <b>Math and Statistics</b>
	• Calculus I & II, Multivariable Calculus
	• Statistical Methods
	• Linear Algebra
	• Optimization Methods
	▪ <b>Biology</b>
	• Biochemistry
	• Cell Biology
	• Genetics
	• Molecular Evolution
	• Phylogenetics

[CV compiled on 2021-05-05]