Samuel Sledzieski

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EDUCATION	**Massachusetts Institute of Technology**,	**Cambridge, MA**
	MS, PhD in Computer Science	2019 – 2024
	In Progress	
	• Advisor: Dr. Bonnie Berger	
	University of Connecticut,	**Storrs, CT**
	BS in Computer Science	2015 – 2019
	• Minor in Molecular and Cellular Biology	
	• Concentration: Bioinformatics, Data Science	
	• Advisor: Dr. Mukul Bansal	
	• Magna Cum Laude, Honors Scholar	

RESEARCH EXPERIENCE	**Massachusetts Institute of Technology**	**Cambridge, MA**
	Research Assistant, Computation and Biology Group	Feb 2020 – Present
	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
	Software Developer, Jackson Laboratory for Genomic Medicine	Aug 2018 – May 2019
	Undergraduate Research Assistant, Nelson Lab	Oct 2015 – Dec 2016

TEACHING EXPERIENCE	**University of Connecticut**	**Storrs, CT**
	Teaching Assistant, Theory of Computation	Spring 2018

PUBLICATIONS

[4] Zaman, **Sledzieski**, Wu, Bansal, "On the reticulate evolutionary history of the SARS-CoV-2 genome," In preparation.

[3] **Sledzieski**, Singh, Cowen, Berger, "Sequence-based prediction of protein-protein interactions: a structure-aware interpretable deep learning model," Under Review, RECOMB 2021.

[2] Kousi, Boix, Mathys, Park, **Sledzieski**, Bennett, Tsai, Kellis, "Single-cell mosaicism analysis reveals cell-type-specific somatic mutational burden in AD," Under Review, Nature.

[1] **Sledzieski**, Zhang, Mandoiu, Bansal, "TreeFix-TP: Phylogenetic Error Correction for Accurate Reconstruction of Viral Transmission Networks," Accepted for publication at PSB 2021.

PRESENTATIONS

RECOMB 2019 Poster Presentation

"TreeFix-TP: Phylogenetic Error Correction for Infectious Disease Transmission Network Inference" — Apr 2019

IEEE ICCABS Workshop on Computational Advances for Next Generation Sequencing

"Phylogenetic Error Correction for Accurate Reconstruction of Viral Transmission Networks" — Oct 2018

UConn Fall Frontiers in Undergraduate Research

"TreeFix-VP: Phylogenetic Error Correction for Transmission Network Inference" — Oct 2018

University of Connecticut Bioinformatics Seminar

"TreeFix-VP: Phylogenetic Error Correction" — Mar 2018, Oct 2018

AWARDS & SCHOLARSHIPS	First Place, MIT Intro to Deep Learning Final Project Competition	Feb 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	Jun 2017
Third Place Overall, HampHack	Apr 2017
Third Place Overall, HackUConn	Mar 2017

MEMBERSHIPS & ACTIVITIES

International Society for Computational Biology (ISCB)

Institute of Electronics Engineers (IEEE)

Association for Computing Machinery (ACM)

Tau Beta Pi, Engineering Honor Society (TBΠ)

Eta Kappa Nu (IEEE-HKN)

Kappa Kappa Psi, National Honorary Band Fraternity (KKΨ)
- Parliamentarian, 2018-2019

Upsilon Pi Epsilon, Computer Science Honor Society (UPE)

REFERENCES

Dr. Bonnie Berger
Simons Professor of Mathematics
Massachusetts Institute of Technology
Computer Science and Artificial Intelligence Laboratory, Cambridge, MA 02139, USA
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Dr. Mukul Bansal
Associate Professor of Computer Science and Engineering
University of Connecticut
371 Fairfield Way, Storrs, CT 06269, USA
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Dr. Lenore Cowen
Professor of Computer Science
Tufts University
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SELECTED COURSEWORK

- **Computer Science**
  - Algorithms
  - Artificial Intelligence
  - Advanced Computational Biology
  - Computational Geometry
  - Inference and Information
  - Machine Learning
  - Software Engineering

- **Math and Statistics**
  - Calculus I & II, Multivariable Calculus
  - Statistical Methods
  - Linear Algebra
  - Optimization Methods

- **Biology**
  - Biochemistry
  - Cell Biology
  - Genetics
  - Molecular Evolution
  - Phylogenetics

[CV compiled on 2020-10-30]