

Logan Persyn

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Education

University of Texas at Austin	Aug 2019 - May 2025
Master of Science and Bachelor of Science in Computer Science	Austin, TX
BS/MS Integrated Program, expected graduation in May 2025	
Graduate GPA: 3.92/4.0, Undergraduate GPA: 3.92/4.0	
Graduate Coursework Current: Human-Computer Interaction, Ethics in AI, Completed: Reinforcement Learning, Computer Graphics, Programming Languages, Algorithms	
Undergraduate Coursework: Natural Language Processing, Quantum Information, Machine Learning, Sci. Comp. in Num. Analysis, Neural Networks, Programming for Performance, Symbolic Programming	

Experience

Research Assistant , University of Texas – Austin, TX	Aug 2022 – Present
• Supervising Professor: Dr. Can Cenik, Cenik Lab • Predicting translation efficiency of mRNA sequences using classic and deep learning. • Data processing was done with Bash, Pandas, Numpy, Scikit-Learn. • Designed and trained machine learning models with Pytorch and Tensorflow. • Interpreted models to determine which mRNA features contributed most to translation efficiency. • Documented methods and results and created figures for research manuscript. • This work forms the basis of my master's thesis and is currently under review for publication.	
Undergraduate Teaching Assistant , University of Texas – Austin, TX	Jan 2022 – May 2022
• Supervising Professor: Dr. Gordon Novak • Course: Symbolic Programming in Clojure • Assisted students with assignments in office hours, graded and provided constructive feedback on their work. • Created an automatic script to grade assignments and code to help student's debug work.	
Summer Intern , Bandera Electric Coop. – Boerne, TX	June 2020 - July 2020
• Organized and Digitized BEC's Member Tariff • Assisted in developing an employee training program for BEC's innovative energy management system, Apolloware. • Used VBA to create scripts to reformat and process data from Apolloware systems and export them into excel to be used for machine learning.	

Publications

Predicting the translation efficiency of messenger RNA in mammalian cells	Aug 2024
D. Zheng, J. Wang, L. Persyn , Y. Liu, F. U. Montoya, C. Cenik, V. Agarwal	
https://doi.org/10.1101/2024.08.11.607362 , under review	
Translation efficiency covariation across cell types is a conserved organizing principle of mammalian transcriptomes	Aug 2024
Y. Liu, I. Hoskins, M. Geng, Q. Zhao, J. Chacko, K. Qi, L. Persyn , J. Wang, D. Zheng, Y. Zhong, S. Rao, D. Park, E. S. Cenik, V. Agarwal, H. Ozadam, C. Cenik	
https://doi.org/10.1101/2024.08.11.607360 , under review	

Honors

- High School Valedictorian, Class Rank: 1/132, Class of 2019
- Martin Goland Scholarship Recipient, Southwest Research Institute, 2019