Evan M. Cofer

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github.com/evancofer

Work Experience

Computational Biologist I @ Asimov Inc., *Boston, MA* April 2024 – Present

Postdoctoral Scholar @ Harvard Medical School, *Boston, MA* July 2023 – April 2024

- Conducted research on generative neural network models (e.g. LLMs) of proteins and DNA sequences.
- Performed large-scale statistical analyses on multiple petabytes of genomics data using cloud resources.
- Managed multiple research projects, mentored graduate students, and identified and applied for grants.

Education

Princeton University, *Princeton, NJ* September 2017 – May 2023

- Ph.D. in Quantitative and Computational Biology (Advisor: Dr. Olga Troyanskaya) May 2023
- Certificate in Statistics and Machine Learning May 2023
- Developed sequence-based convolutional neural network models of gene regulation for non-coding mutation effect prediction.
- Created analysis pipelines for next-generation sequencing data (RNA-seq, DNA-seq, ATAC-seq, ChIP-seq, Micro-C/Hi-C).
- Developed software libraries, web servers, and other machine learning research software.

Trinity University, *San Antonio, TX* August 2012 – May 2017

- B.S. in Computer Science (Advisor: Dr. Matthew Hibbs) May 2017
- Developed deep learning models for somatic mutation calling in large-scale DNA-seq datasets.
- Constructed pipelines for processing and analyzing whole-genome sequencing data.

Awards, Honors, Fellowships, and Grants

Dean's Innovation Award for Artificial Intelligence Research, *Harvard Medical School* January 2024

NSF Graduate Research Fellowship Program Award, *Princeton University* April 2019

NIH NHGRI T32 Training Fellowship, *Princeton University* August 2018 – May 2019

NSF Graduate Research Fellowship Program: Honorable Mention, *Trinity University* March 2017

Computer Science Department Senior Research Award, *Trinity University* February 2017

Mach Research Fellowship, *Trinity University* April 2016

Dean's List, *Trinity University* December 2015 – May 2017

Trustee's Academic Merit Scholarship, *Trinity University* August 2012 – May 2017

Skills and Proficiencies

Programming Languages: Python (PyTorch, NumPy, Pandas, Matplotlib, and basic Django), R, Bash, Linux, git, SQL, CSS/HTML

Technical Skills: deep learning, computer science, computational biology, genomics, machine learning, data science, data visualization, bioinformatics, programming, statistics

Publications

My publications and preprints are available on my Google Scholar Page.