



Jacob Fein-Ashley

@ feinashl@usc.edu |  LinkedIn |  Google Scholar

EDUCATION

University of Southern California

Ph.D. in Electrical Engineering

Research focused on machine learning

Los Angeles, California

Jan 2025 – May 2028

Relevant Coursework: Probability for Electrical Engineers, Linear Algebra for Electrical Engineers, Financial Analytics, Topics in Stochastic Processes, Mathematical Foundations of Statistical Learning Theory, Applied Probability

University of Southern California

MS in Electrical Engineering

Coursework focused on machine learning and data science

Los Angeles, California

Aug 2023 – Dec 2024

Colorado School of Mines

BS in Computer Science

Coursework focused on mathematics and CS fundamentals

Golden, Colorado

Aug 2020 – Dec 2022

GPA: 3.80/4.00

Relevant Coursework: Machine Learning, Data Structures, Algorithms, Linear Algebra, Probability Theory, Mathematical Statistics, Operating Systems, Calculus I-III, Differential Equations, Discrete Mathematics, Software Engineering, Database Management, Multivariate Analysis, Advanced Machine Learning

AWARDS

2021-2022 Palantir C-MAPP Scholar

SKILLS

Languages: Julia, Python, C++, Java, SQL

Technologies: PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, Git, Docker

Operating Systems: Linux, Windows

EXPERIENCE

Data Science Lab, USC

Graduate Research Assistant

Los Angeles, California

May 2023 – Present

- Researching areas broadly related to machine learning and data science.
- Collaborating with other researchers to develop new algorithms and models related to machine learning.
- Directed by Dr. Viktor Prasanna

MInDS@Mines

Undergraduate Research Assistant

Golden, Colorado

May 2022 – Aug 2022

- Initiated research for performance metrics of three-dimensional point clouds and meshes
- Implemented and designed an algorithm for scoring surface reconstruction meshes against respective point clouds.
- Directed by Dr. Hua Wang

PUBLICATIONS

- **Fein-Ashley, J.**, Ye, T., Kannan, R., Prasanna, V., & Busart, C. (2023). Studying the Effects of Self-Attention on SAR Automatic Target Recognition.
- **Fein-Ashley, J.**, Ye, T., Kannan, R., Prasanna, V., & Busart, C. (2023). A Single Graph Convolution Is All You Need: Efficient Grayscale Image Classification.
- **Fein-Ashley, J.**, Ye, T., Kannan, R., Prasanna, V., & Busart, C. (2023). Benchmarking Deep Learning Classifiers for SAR Automatic Target Recognition. 2023 IEEE High Performance Extreme Computing Conference (HPEC), 1-6.