JEREMY K. THALLER

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About: *US citizen; Aug. 2021 MSci. graduate with ML experience; looking for entry level data science roles*

EDUCATION

Adam Mickiwicz University 2019 – Aug. 2021
(Anticipated) MSci. in Applied Physics *Poznan, Poland*

Ludwig Maximilians & Technische Universität München 2019 – Aug. 2021
(Anticipated) MSci. in Materials Science and Engineering *Munich, Germany*

Williams College *2015 – 2019*
B.A. in Physics with Honors | GPA 3.3 *Williamstown, MA*
Sigma Xi Honors Society Inductee | Captain of Track & Field Team

WORK EXPERIENCE

Brookhaven National Lab Feb. – Aug. 2021
Master's Thesis Researcher, Structure and Dynamics of Applied Nanomaterials Group

(Current) Developed a new technique to simulate disordered structures utilizing skew-norm functions, reducing compute time by 50X; built a neural network with TensorFlow to predict disorder from particle accelerator data, reducing the amount of required training data by 90%

Yale University Summer 2019
Postbac Researcher, Department of Mechanical Engineering and Materials Science

Formulated an experiment to isolate the causal variable behind nanowire lattice orientation; wrote and deployed a python program to automate repetitive calculations, simplifying candidate screening and reducing overhead time by 10×

Williams College 2018 – 2019
Undergraduate Thesis Researcher, Department of Physics

Designed and built components for a new strain-dependent surface stress measuring methodology; wrote MATLAB scripts to automate the complex data analysis process to be click-to-run, predicting the targeted features with multinomial linear regressions

TECHNICAL STRENGTHS

Programming Languages	Python, MATLAB, SQL, Java, Arduino (C/C++)
Python Packages	Pandas, NumPy, Scikit-Learn, PyTorch, TensorFlow, KERAS, Tensorboard, Seaborn, Matplotlib, Regex, Optuna, Plotly/Dash
Data Software	Mathematica, Quantum Espresso, Excel, LabView, LoggerPro
Visualization Software	LaTeX, Solid Works, VESTA, Adobe Illustrator, Adobe Photoshop

DATA SCIENCE PROJECTS

Facebook Messenger Analysis
HTML and JSON scraping, statistics analysis and visualization, mystery friend classifier, and chatbot

Organic Semiconductor Optimization Predictor
Neural network to reduce semiconductor candidate screening time by 100×

DATA SCIENCE SKILLS

Data Cleaning and Feature Engineering, SSH + VIM, Unix Command Line (BASH), Git and Version Control, Probability and Statistics (Bayesian), Neural Networks and Deep Learning, Natural Language Processing, Image Classification and Computer Vision, Recommendation Systems