JEREMY K. THALLER

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EDUCATION

Adam Mickiwicz University	2019 – Aug. 2021
(Anticipated) MSci. in Physics of Advanced Materials for Energy Processing	*Poznan, Poland*

Ludwig Maximilians & Technische Universität München	2019 – Aug. 2021
(Anticipated) MSci. in Geomaterials and Geochemistry	*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

Master's Thesis Researcher — Feb. – Aug. 2021
Structure and Dynamics of Applied Nanomaterials Group — *Brookhaven National Laboratory*

Applied supervised machine learning to synchrotron data to determine underlying structure

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

Nanomolded crystalline metals and analyzed the samples with SE and TE microscopy, wrote and deployed a python program to quicken repetitive calculations

Undergraduate Thesis Researcher — 2018 – 2019
Department of Physics — *Williams College*

Designed with SolidWorks and CNC milled a stretching apparatus for soft materials, collected data via confocal microscopy, processed and analyzed data with MATLAB and multinomial linear regressions

Undergraduate Research Assistant — Summer 2017
Department of Physics — *Williams College*

Programmed and installed a PID controller to regulate furnace temperatures within 1 degree, designed a deposition-rate detector for an indium cell chamber, and analyzed data with MATLAB and Mathematica

TECHNICAL STRENGTHS

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

DATA SCIENCE PROJECTS

Scraping Facebook Messenger Data and Visualizing the Statistics (Beautiful Soup, Searborn, Pandas)
Mystery Friend Classifier from Facebook Messenger data (Sk-learn, Pandas)
Chatbot Based on Personal Messenger Data (Tensorflow 2, Pandas, Numpy)
Organic Semiconductor Optimization Predictor (Keras)

DATA SCIENCE SKILLS

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