

JEREMY K. THALLER

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EDUCATION

Adam Mickiewicz University (Anticipated) MSci. in Physics of Advanced Materials for Energy Processing	2019 – Aug. 2021 <i>Poznan, Poland</i>
Ludwig Maximilians & Technische Universität München (Anticipated) MSci. in Geomaterials and Geochemistry	2019 – Aug. 2021 <i>Munich, Germany</i>
Williams College B.A. in Physics with Honors GPA 3.3 Sigma Xi Honors Society Inductee Captain of Track & Field Team	2015 – 2019 <i>Williamstown, MA</i>

WORK EXPERIENCE

Master's Thesis Researcher <i>Structure and Dynamics of Applied Nanomaterials Group</i> Applied supervised machine learning to synchrotron data to determine underlying structure	Feb. – Aug. 2021 <i>Brookhaven National Laboratory</i>
Postbac Researcher <i>Department of Mechanical Engineering and Materials Science</i> Nanomolded crystalline metals and analyzed the samples with SE and TE microscopy, wrote and deployed a python program to quicken repetitive calculations	Summer 2019 <i>Yale University</i>
Undergraduate Thesis Researcher <i>Department of Physics</i> 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	2018 – 2019 <i>Williams College</i>
Undergraduate Research Assistant <i>Department of Physics</i> 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	Summer 2017 <i>Williams College</i>

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
Chatbot Based on Personal Messenger Data (Tensorflow)
Organic Semiconductor Optimization Predictor

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