

# JEREMY K. THALLER

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## EDUCATION

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### Adam Mickiewicz University, Poznan

MSci. in Physics of Advanced Materials for Energy Processing

*In Progress  
Poznan, Poland*

### University of Munich (LMU) & Technical University of Munich (TUM)

MSci. in Geomaterials and Geochemistry

*2019 – 2020  
Munich, Germany*

### Williams College

B.A. in Physics with Honors, GPA 3.3

Sigma Xi Honors Society Inductee

Captain of Track & Field Team

*2015 – 2019  
Williamstown, MA*

## DATA SCIENCE SKILLS

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Data Cleaning and Feature Engineering

Command Line (BASH)

Neural Networks and Deep Learning

Natural Language Processing

SSH + VIM

Probability and Statistics (Bayesian)

Git and Version Control

Recommendation Systems

## TECHNICAL STRENGTHS

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### Programming Languages

Python, MATLAB, SQL, JAVA, Arduino (C/C++)

### 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

## WORK EXPERIENCE

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### Postbac Researcher

*Department of Mechanical Engineering and Materials Science*

Summer 2019

*Yale University*

Nanomolded crystalline metals and analyzed the samples with SE and TE microscopy

### Undergraduate Thesis Researcher

*Department of Physics*

2018 – 2019

*Williams College*

Designed and built stretching apparatus for soft materials, collected data via confocal microscopy, and analyzed data with MATLAB

### Undergraduate Research Assistant

*Department of Physics*

Summer 2017

*Williams College*

Programmed a PID controller, designed a deposition-rate detector for an indium cell chamber, and analyzed data with MATLAB and Mathematica

### Student Technology Assistant

*Office of Information Technology*

Summer 2016

*Williams College*

Installed and imaged new computers, worked the student and faculty support help-lines, repaired damaged computers

## DATA SCIENCE PROJECTS

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Movie Recommendation System

CIFAR-10 Classifier

Chatbot based on personal Messenger Data

Semiconductor Optimization Predictor

Spam Email Classifier

Image Segmentator

Quora Spam Question Identifier

Covid-19 Cases Forecasting