

# JEREMY K. THALLER

jkt2@alumni.williams.edu ◇ jthaller.github.io

## EDUCATION

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### Adam Mickiewicz University, Poznan

MSci in Physics of Advanced Materials for Energy Processing

2020 - 2021

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 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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Facebook Messenger Statistics and Word-Cloud Plots

Chatbot based on personal Messenger Data

Semiconductor Optimization Predictor

CIFAR-10 Classifier

Spam Email Classifier

Quora Spam Question Identifier

Covid-19 Case Forecasting

Image Segmentator