

JEREMY K. THALLER

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EDUCATION

Ludwig Maximilians Universität München (LMU) & Technische Universität München (TUM)

Oct. 2019 – Present

- (In progress) MSci in Geomaterials and Geochemistry
- Erasmus Mundus: Masters in Materials Science Exploring Large Scale Facilities

Williams College

2015 – 2019

- B.A. in Physics with Honors, GPA 3.3
- Sigma Xi Inductee

DATA SCIENCE SKILLS

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

Programming Languages

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

Python Packages

Pandas, NumPy, sklearn, PyTorch, KERAS, TensorFlow, Seaborn

Data Software

Mathematica, Quantum Espresso, Excel, LabView, LoggerPro

Visualization Software

L^AT_EX, Solid Works, VESTA, Adobe Illustrator, Adobe Photoshop

WORK EXPERIENCE

Amorphous Solids, Metallic Glasses, & Metallurgy

Summer 2019

Postbac Researcher

Advised by Jan Schroers, Professor of Physics

Yale University

- Nanomolded crystalline metals and analyzed the samples with SE and TE Microscopy

Soft Condensed Matter Physics

May 2018 – June 2019

Undergraduate Honors Thesis

Advised by Katharine E. Jensen, Professor of Physics

Williams College

- Designed and built stretching apparatus to induce equibiaxial stretch in soft materials
- Analyzed data through modified MATLAB scripts to measure the strain dependency of surface stress

Atomic, Molecular, and Optical Physics

Summer 2017

Undergraduate Research Assistant

Advised by Protik K. Majumder, Professor of Physics

Williams College

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

ADVANCED COURSEWORK

Multivariate Calculus

Linear Algebra

Statistical Mechanics

Particle Physics

Computational Materials Design

Partial Differential Equations

Deep Learning

Machine Learning