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
- Sigma Xi

DATA SCIENCE SKILLS

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

TECHNICAL STRENGTHS

Programming Languages	Python, MATLAB, JAVA, Arduino (C/C++)
Python Packages	Pandas, NumPy, sklearn, PyTorch, KERAS, TensorFlow, Seaborn
Data Software	Mathematica, Quantum Espresso, Excel, LabView, LoggerPro
Other Software	LaTeX, 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 TEM to determine the underlying mechanism.

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 and designed a deposition-rate detector for an indium cell chamber based on the mass dependent frequency of Quartz Crystals

ADVANCED COURSEWORK

Condensed Matter Physics
Thermodynamics and Statistical Mechanics
Classical Mechanics/Fluid Dynamics (Tutorial)
Particle Physics (Tutorial)
Deep Learning
Electricity and Magnetism
Multivariate Calculus

Gravity
Quantum Mechanic
Partial Differential Equations
Computational Materials Design
Machine Learning

Linear Algebra

ADDITIONAL INFORMATION

Interests Bassoon, Jazz Piano, Running, Bicycle Repair, Rocketry, Graphic Design
Languages German (B1)