

# JEREMY K. THALLER

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## EDUCATION

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### 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

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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

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<b>Programming Languages</b>	Python, MATLAB, JAVA, Arduino (C/C++)
<b>Python Packages</b>	Pandas, NumPy, sklearn, PyTorch, KERAS, TensorFlow, Seaborn
<b>Data Software</b>	Mathematica, Quantum Espresso, Excel, LabView, LoggerPro
<b>Other Software</b>	LaTeX, Solid Works, VESTA, Adobe Illustrator, Adobe Photoshop

## WORK EXPERIENCE

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### 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

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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

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