

JEREMY K. THALLER

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EDUCATION

Technische Universität München (TUM)

September 2019 - September 2020

Anticipated M.S. in Applied and Engineering Physics

Erasmus Mundus: Masters in Materials Science Exploring Large Scale Facilities

Williams College

September 2015 - Present

(*in progress*) B.A. in Physics with Honors

Pre-engineering studies

Acton-Boxborough Regional High School

2011-2015

National AP Scholar

National Honors Society

TECHNICAL STRENGTHS

Programming Languages

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

Data Software

Mathematica, Excel, LabView, LoggerPro

Other Software

LaTeX, Solid Works, Adobe Illustrator, Adobe Photoshop

Machining Experience

Bridgeport Milling, CNC Milling, 3D Printing, Laser Cutting

RESEARCH EXPERIENCE

Soft Condensed Matter Physics

May 2018 - Present

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
- Used Fluorescent Confocal Microscopy to measure the strain dependency of solid surface stress in soft materials via adhesion

Atomic, Molecular, and Optical Physics

June - August 2017

Undergraduate Research Assistant

Advised by Protik K. Majumder, Professor of Physics

Williams College

- Programmed a PID controller in LabView to thermally regulate an oven to within $\pm 4^\circ$ C at temperatures around 950° C
- Designed a deposition-rate detector for an indium cell chamber based on the mass dependent frequency of Quartz Crystals

ADVANCED PHYSICS COURSEWORK

Condensed Matter Physics (Spring 2019)

Thermodynamics and Statistical Mechanics (Spring 2019)

Advanced Classical Mechanics and Fluid Dynamics (Tutorial)

Gravity

Particle Physics (Tutorial)

Quantum Mechanics

Philosophical Implications of Modern Physics

Electricity and Magnetism

Mathematical Methods for Scientists

Vibrations, Waves, and Optics

ADDITIONAL INFORMATION

Interests	Bassoon, Jazz Piano, Running, Bicycle Repair, Arduinos, Rocketry, Graphic Design
Languages	German (Currently B2)