

# JEREMY K. THALLER

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10 Knowlton Dr. ◇ Acton, MA 01720

## EDUCATION

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### Technische Universität München (TUM)

September 2019 - September 2020

(*next year*) 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

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### 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

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### 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*

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

## ADVANCED PHYSICS COURSEWORK

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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

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### Interests

Bassoon, Jazz Piano, Running, Bicycle Repair, Arduinos, Rocketry, Graphic Design

### Languages

German (Currently B2)