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 is soft materials via adhesion
- Data was collected through modified MATLAB scripts from K.E. Jensen and M.L. Kilfoil

Atomic, Molecular, and Optical Physics June - August 2017
Undergraduate Research Assistant
Advised by Protik K. Majumder, Professor of Physics *Williams College*

- Took data towards an ultra-precise measurement of the Electric Quadrupole (E2) amplitude within the $6S^2 6P^2\ {}^3P_0 \rightarrow {}^3P_2$ transition in Pb
- Programed a PID controller in LabView to thermally regulate an oven to within $\pm.4°$ 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)