

JEREMY K. THALLER

978-496-7990 ◊ jkt2@williams.edu ◊ Acton, MA 01720

EDUCATION

Technische Universität München (TUM)

September 2019 - September 2020

M.S. in Applied and Engineering Physics

Erasmus Mundus: Masters in Materials Science Exploring Large Scale Facilities

Williams College

September 2015 - May 2019

(*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 AND WORK 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

- Programed a PID controller in LabView to thermally regulate a high temperature oven
- Designed a deposition-rate detector based on the mass dependent frequency of Quartz Crystals

Teaching Assistant and Tutoring

Sept 2016 - Present

Physics Department, Math and Science Resource Center

Williams College

- TA for Math Methods for Scientists (diff EQ's, Fourier, etc.) & Introductory Classical Mechanics
- Tutored all calculus and introductory physics courses at Math/Science resource center

IT Work

June 2016 - Aug 2016

Office of Information Technology

Williams College

- Set up, repaired, and imaged new computers
- Worked the Faculty staff support line

ADVANCED PHYSICS COURSEWORK

Condensed Matter and Solid State Physics

Gravity

Particle Physics

Thermodynamics and Statistical Mechanics

Quantum Mechanics

Electricity and Magnetism

Advanced Classical Mechanics and Fluid Dynamics

Vibrations, Waves, and Optics

Mathematical Methods for Scientists

Philosophical Implications of Modern Physics

ADDITIONAL INFORMATION

Interests

Bassoon, Jazz Piano, Track & Field, Bicycle Repair, Rocketry, Graphic Design

Languages

German (Currently B2)