# **Anthony Katona**

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### **Education**

## •The Pennsylvania State University

2023

Chemistry PhD

- A designed & synthesized ultra-fast/nano-scale thermal transport materials; developed photothermal polymer techniques for coatings & 3D-printing applications with *Dr. Benjamin Lear*
- \* oversaw lab safety as General Safety Officer & Laser Safety Officer as well as managed supply & maintenance of pumps, gas cylinders, and gloveboxes
- Laught as TA for all first year chemistry courses & mentored both graduate incoming TAs & undergraduate researchers
- a co-developed and implemented novel thermal conductivity undergraduate lab experiments for Dr. Bratoljub Milosavljevic's physical chemistry course

## ·Susquehanna University

2015

Biochemistry; Physics minor

BS

- A synthesized novel transition metal Janus complexes with Dr. William Doughtery
- A contributed to procedural galaxy classification models in computational summer research with Dr. Violet Mager

#### **Technical Skills**

spectroscopy: NMR, IR, UV-Vismicroscopy: AFM, TEM, SEM

materials: tension (UTM, DMA), thermal (DSC, TGA, TPS)

**♦ laser**: class IV CW/pulsed safety, handling, optics

**Ir** electronics: circuit design/prototyping, signal generation, spectrum analysis, micro-controllers

languages: Python, C#, C++, Labview, HTML, CSS, JS

**3D**: Blender (modeling, sculpting, rigging, animating, shading, VFX, compositing), Unreal Engine

misc. software: Adobe CC (AE, PS, Pr, II), FL Studio, ImageJ, ChatGPT

#### **External Resources**

•reference: Dr. Mary Jo Bojan (TA Supervisor) - bz6@psu.edu

•publication: "Galaxy Structure in the Ultraviolet..." (2018) - doi 10.3847/1538-4357/aad59e

•web projects: frkatona.github.io