

Anthony Katona

apk5101 ❖ (717) 275-4584 ❖ Centre Hall, PA

EXPERIENCE

Susquehanna University

B.S. - Biochemistry (minor, Physics)

2012 – 2015

Selinsgrove, PA

- Teaching
 - TA for General Chemistry I & II
- Research
 - Inorganic chemistry - laboratory work with Dr. William Dougherty on the synthesis of novel Janus-complexes and assorted first-row transition metal complexes
 - Astronomy/astrophysics - computational summer research with Dr. Violet Mager on procedural galaxy classification

The Pennsylvania State University

Ph.D. (candidate, post-Comprehensive Exam)

2015 - Current

State College, PA

- Teaching
 - TA for Chemistry 108, 110, 111, 112, & 113
 - Collaboration on design and implementation of novel thermal conductivity lab with Dr. Bratoljub Milosavljevic
- Research
 - Inorganic/physical chemistry - laboratory work with Dr. Benjamin Lear on synthesis of ultrafast/nanoscale thermal transport materials, photothermal polymer curing/manipulation, and 3D printing applications
- Laboratory Roles
 - General Safety Officer; Laser Safety Officer; general maintenance for pumps, gas-tanks, and gloveboxes

SKILLS

- Laboratory
 - Spectroscopy - NMR, IR, UV-Vis
 - Microscopy - AFM, TEM, SEM
 - Physical Property - UTM, TPS (thermal conductivity), DSC
 - Laser safety, handling, and optics
- Electronics
 - General - DMM, soldering
 - Microcontrollers/processors (Arduino, Raspberry Pi, etc.)
- Software
 - Languages - C, C++, C#, Python, basic HTML/CSS/JS
 - 3D - Blender (Modelling, Sculpting, Rigging, Shading, Animating, Compositing), Gaea
 - Game Design - Unity, Unreal Engine
 - Audio - FL Studio, Audacity
 - Adobe CC - Photoshop, After Effects, Substance Painter

EXTERNAL RESOURCES

- References
 - Dr. Mary Jo Bojan (110 TA Supervisor) - bz6@psu.edu - (814) 865-2895
- Publications
 - “Galaxy Structure in the Ultraviolet...” (2018) - <https://doi.org/10.3847/1538-4357/aad59e>
- Portfolio
 - deviantart.com/frkatona/gallery
 - <https://tinyurl.com/AnthonyKatona> **Youtube** (& CGI elements of <https://youtu.be/cnQqiqQgMYI>)
 - soundcloud.com/anthony-phillip-katona
 - <https://github.com/tackwon101>