

Luke Allen Myers

✉ luke.allen.myers@gmail.com

☎ +1 (520) 390-0536

🌐 Luke Myers

🆔 0009-0003-0823-0871

🌐 <https://phaseslab.com/Luke>

Employment History

- 2023 – ···· **Research Assistant**, Pennsylvania State University
Material Properties prediction using Density Functional Theory and Zentropy
- 2022 – 2023 **Materials and Manufacturing Engineer**, Lawrence Livermore National Laboratory
Self-driving laboratory development and research automation
Glass Volumetric Additive Manufacturing
- 2022 Summer **Materials Engineering Intern**, Lawrence Livermore National Laboratory
Glass Volumetric Additive Manufacturing

Education

- 2023 – ···· **Ph.D., Pennsylvania State University** Materials Science and Engineering.
- 2014 – 2022 **B.S., New Mexico State University** Engineering Physics.
Concentration: *Chemical Engineering*.
Minor: Mathematics

Research Publications

- 1 **L. A. Myers**, J. J. Schwartz, M. P. De Beer, R. L. Walton, and D. H. Porcincula, “Development of transparent, particle-loaded photoresins for volumetric additive manufacturing of silica glass,” *Journal of Polymer Science*, 2024. [DOI: 10.1002/pol.20230654](https://doi.org/10.1002/pol.20230654).

Skills

- Languages **Python**, MATLAB, \LaTeX , Bash
- Computational **Density Functional Theory (DFT)** - VASP, Zentropy Theory, CALPHAD, Magnetism, Superconductivity, ASPEN/HYSYS
- Laboratory **Automated Research**, Self-Driving Labs, Additive Manufacturing, Photopolymers, Ceramics, Rheology, X-ray Diffraction, Peptides, Rare-Earth elements, Inverse Design, Openrons
- Security Clearance **DOE Q Clearance**

Awards

- 2021 **$\Sigma\Pi\Sigma$ Physics Honor Society induction**
- Albert & Mabel Burris Physics Scholarship**
- Prof. Harold Brown EE Scholarship**

Additional Work Experience

- 2018 – 2022 **Head Lifeguard**, City of Las Cruces
- 2017 – 2018 **Youth Services Monitor Lead**, City of Las Cruces
- 2013 – 2017 **Lifeguard**, YMCA of Southern Arizona, Pima County NRPR