



## Monty R. Cosby

Postdoctoral Scholar, Photon Science, SLAC

 Curriculum Vitae available Online

### Bio

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#### BIO

Research Vision: To characterize and develop materials for electrochemical applications in the pursuit of improved energy technologies. Research pertains to developing novel high-throughput methods, creating on-the-fly analysis tools, and utilizing mathematical modeling to optimize materials processes.

Stanford research: Work is primarily on operando XRD, PDF, XAS, and GIWAXS analysis of structural changes within perovskite photovoltaic materials. High-throughput on-the-fly analysis of structural evolutions combined with machine learned databases is being developed to automate beamline experiments. Secondary projects include engineering and maintaining general tools for users to take advantage of in conducting their research. Completed several career and teaching development workshops through Stanford University towards holding a job within academia.

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, S.U.N.Y. State University at Stony Brook (2022)
- Bachelor of Science, University of Oregon (2017)
- Ph.D, Stony Brook University , Chemistry (2022)
- B.S., University of Oregon , Major: Chemistry Minor: Economics (2017)

#### STANFORD ADVISORS

- Piero Pianetta, Postdoctoral Faculty Sponsor