

Stanford

Alan Liu

- Ph.D. Student in Mechanical Engineering, admitted Winter 2022
- Ph.D. Minor, Materials Science and Engineering
- Student Employee, Summer Session

Bio

BIO

Second year Ph.D. student in Mechanical Engineering doing research in degradation modeling for solar modules and materials.

EDUCATION AND CERTIFICATIONS

- Ph.D., Stanford University , Mechanical Engineering (2025)
- M.S., Stanford University , Mechanical Engineering (2022)
- B.S., University of California, Berkeley , Chemical Engineering (2019)

Research & Scholarship

PROJECTS

- Thermomechanical and Photochemical Reliability of Photovoltaic Modules - Stanford University

Teaching

COURSES

2023-24

- Fracture and Fatigue of Materials and Thin Film Structures: MATSCI 358, ME 258 (Win)

Publications

PUBLICATIONS

- **Predicting encapsulant delamination in photovoltaic modules bridging photochemical reaction kinetics and fracture mechanics** *PROGRESS IN PHOTOVOLTAICS*
Liu, K., Thornton, P., D'hooge, D. R., Dauskardt, R. H.
2023