

Stanford



Tristan Gilbert

Ph.D. Student in Mechanical Engineering, admitted Winter 2022

Bio

HONORS AND AWARDS

- Graduate Research Fellow, National Science Foundation (2021)
- Bridge Fellow, Lawrence Berkeley National Lab (2020)
- Chancellor's Fellow, UC Berkeley (2020)

EDUCATION AND CERTIFICATIONS

- Graduate Study, UC Berkeley , Mechanical Engineering; Designated Emphasis in Energy Science and Technology (2020)
- MS, Vanderbilt University , Mechanical Engineering (Energy Materials) (2020)
- BE, Vanderbilt University , Mechanical Engineering (2020)

PATENTS

- Su et al.. "United States Patent Application 16938924 Rechargeable battery using iron negative electrode and manganese oxide positive electrode", Form Energy, Inc, Jul 25, 2020
- Newhouse et al.. "United States Patent 16938862 (Application) Low Cost Metal Electrodes", Form Energy, Inc, Jul 24, 2020
- Weber et al.. "United States Patent Application 16913877 Device architectures for metal-air batteries", Form Energy, Inc, Jun 26, 2020

LINKS

- LinkedIn: <https://www.linkedin.com/in/tristanagilbert/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Industrial decarbonization; energy system techno-economics; battery materials and manufacturing.

Professional

WORK EXPERIENCE

- Materials Informatics Intern - Aionics, Inc (2021)
- Business Development Intern - Aionics, Inc (2021)
- Cell Manufacturing Intern - Tesla (2020)
- Reactor Development Intern - Form Energy, Inc (2019)
- Process Intern - Sila Nanotechnologies, Inc (2018)

Publications

PUBLICATIONS

- **Influence of spatial dispersion on spectral tuning of phonon-polaritons** *PHYSICAL REVIEW B*
Beechem, T. E., Saltonstall, C. B., Gilbert, T., Matson, J., Ugwu, F., Kasica, R., Bezares, F. J., Valentine, J., Caldwell, J. D.
2019; 100 (20)