# 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, Laurence Berkeley National Lab (2020)
- Chancellor's Fellow, UC Berkeley (2020)

### **EDUCATION AND CERTIFICATIONS**

- PhD (incomplete), 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 Eletrodes", 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**

Article Heat source and application-dependent levelized cost of decarbonized heat *JOULE* Gilbert, T., Menon, A. K., Dames, C., Prasher, R. 2023; 7 (1): 128-149

• 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)