



Sarah G. Sanderson

Ph.D. Student in Bioengineering, admitted Autumn 2025

Bio

HONORS AND AWARDS

- NSF GRFP Award, National Science Foundation (April 2025)

EDUCATION AND CERTIFICATIONS

- Bachelor of Science, Brigham Young University , Mechanical Engineering (2025)

Publications

PUBLICATIONS

- **Observation and modeling of strain gradients in AA6016-Influence of length-scale, microstructure, and strain path** *MATERIALS CHARACTERIZATION*
Sanderson, S. G., Najmabad, S., Sharma, R., Neville, T., Webb, A., Miles, M. P., Knezevic, M., Fullwood, D. T.
2025; 222
- **Characterizing Temperature-Dependent Acoustic and Thermal Tissue Properties for High-Intensity Focused Ultrasound Computational Modeling** *INTERNATIONAL JOURNAL OF THERMOPHYSICS*
Sanderson, S. G., Easthope, B., Farias, C., Doddridge, I., Cook, J. A., Dahl, D. B., Dillon, C. R.
2024; 45 (10)
- **Investigating the Feasibility of Focused Ultrasound Actuation of Shape Memory Alloy** *ASME 2024 Conference on Smart Materials, Adaptive Structures and Intelligent Systems*
Chipana, A., Moore, J., Hancock, M., Sanderson, S. G., Hill, J. R., Dillon, C. R.
2024
- **Determining Grain Boundary Position and Geometry from EBSD Data: Limits of Accuracy.** *Microscopy and microanalysis : the official journal of Microscopy Society of America, Microbeam Analysis Society, Microscopical Society of Canada*
Fullwood, D. T., Sanderson, S., Baird, S., Christensen, J., Homer, E. R., Johnson, O. K.
2022; 28 (1): 96-108