Stanford



Aaron Brown

Ph.D. Student in Mechanical Engineering, admitted Autumn 2019

Resume available Online

Bio

BIO

I am originally from Towson, Maryland, and did my undergraduate at Brown University in Providence, Rhode Island. I like baseball, running, and playing the piano!

INSTITUTE AFFILIATIONS

• Member (Student), Cardiovascular Institute

EDUCATION AND CERTIFICATIONS

• BS, Brown University, Mechanical Engineering (2019)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Engineering research with applications to energy/environmental sustainability.

Publications

PUBLICATIONS

- A Modular Framework for Implicit 3D-0D Coupling in Cardiac Mechanics. Computer methods in applied mechanics and engineering Brown, A. L., Salvador, M., Shi, L., Pfaller, M. R., Hu, Z., Harold, K. E., Hsiai, T., Vedula, V., Marsden, A. L. 2024; 421
- Computational approaches for mechanobiology in cardiovascular development and diseases. Current topics in developmental biology Brown, A. L., Sexton, Z. A., Hu, Z., Yang, W., Marsden, A. L. 2024; 156: 19-50
- Recent advances in quantifying the mechanobiology of cardiac development via computational modeling. Current opinion in biomedical engineering Brown, A. L., Gerosa, F. M., Wang, J., Hsiai, T., Marsden, A. L. 2023; 25