

**Personal Qualifications Summary**  
**Shane D. Garland**  
Research Associate II  
Mechanical Engineering Department  
Colorado State University  
1374 Campus Delivery  
Fort Collins, CO 80523  
Email: garland@rams.colostate.edu

### **Education & Training**

Colorado State University, Mechanical Engineering, MS, 2015-2018  
Bradley University, Mechanical Engineering, BS, 2010-2015

### **Employment History**

2018-present Research Associate II, Mechanical Engineering, Colorado State University

### **Select Honors & Awards**

- Fundamentals of Engineering Exam (FE), passed May 2015
- Great Minds in Research, 1st place, Colorado State University Graduate Student Showcase. Nov. 2016
- Bradley University Outstanding Intern of the Year Award, Spring 2015
- Outstanding First Year Student Award, Bradley University, 2011
- Eagle Scout, Boy Scouts of America, 2004-2010

### **Peer Reviewed Journal and Conference Publications**

1. Braun, Robert J., et al. "Development of a Novel High Efficiency, Low Cost Hybrid SOFC/Internal Combustion Engine Power Generator." ECS Transactions 91.1 (2019): 355-360, 2019.
2. Garland, Shane D., Derek N. Young, and Todd M. Bandhauer. "Performance Comparison between ORVC and Absorption Technologies over a Range of Ambient Conditions." Second Pacific Rim Thermal Engineering Conference, 2019.
3. Garland, Shane D., Derek N. Young, and Todd M. Bandhauer. "Comparison Technique for Thermodynamic Performance of Heat Activated Cooling Systems." ASTFE Digital Library. Begel House Inc., 2019.
4. Garland, Shane D., Jeff Noall, and Todd M. Bandhauer. "Experimentally validated modeling of a turbo-compression cooling system for power plant waste heat recovery." Energy (Oxford) 156.C (2018).
5. Garland, Shane Daniel. Waste heat driven turbo-compression cooling. Thesis. Colorado State University. Libraries, 2018.
6. Garland, Shane D., et al. "Experimental Investigation of a Waste Heat Driven Turbo-Compression Chiller." ASTFE Digital Library. Begel House Inc., 2018.
7. Garland, Shane D., Todd M. Bandhauer, and Jeff Noall. "Performance Model of a Waste Heat Driven Turbo-Compression Chiller." ASTFE Digital Library. Begel House Inc., 2017.

8. Bandhauer, Todd M., and Shane D. Garland. "Dry Air Turbo-Compression Cooling." ASME 2016 Power Conference collocated with the ASME 2016 10th International Conference on Energy Sustainability and the ASME 2016 14th International Conference on Fuel Cell Science, Engineering and Technology. American Society of Mechanical Engineers Digital Collection, 2016.