

Katey Thompson
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EDUCATION

Truman State University - August 2013 - May 2019

B.S. Physics, Minor: Astronomy

SKILLS

Customer service, public speaking, Microsoft Office, Python, MatLab, Simulink, Octave, Wolfram Mathematica, TensorFlow, LabView, research, data collection, data analysis, Linux, C, C++, Windchill, modeling fluid dynamics and electrical systems, Agile, Version One, team leadership

EXPERIENCE

NASA-Jacobs Technology (Kennedy Space Center) - *Simulation Engineer*, November 2019 - Present

- Working with teammates to model ground subsystems (PLC interface, electrical, and fluid) with MATLAB and Simulink in support of Artemis mission, tune models according to thermodynamic and fluid dynamic physics to match physical hardware performance, ensure models are physically realistic so they can be used in training simulation scenarios. Using C, C++, and Fortran to write and utilize S-Functions in Simulink to implement algorithms to support continuous time and discrete systems. Lead the modeling team responsible for ground mechanical systems (umbilicals and swing arms) for the Artemis mission by delegating work, leading meetings, assisting team with modeling and organizational needs, and communicating with customers to provide quality software deliverables.
- Manager: James Eschleman

Truman State University - *Student Researcher*, Sept 2013 - May 2019

- Process and analyze large amounts of astronomical data and monitor the telescope, present research with poster presentation at MOSGC conference in Rolla, MO and oral presentation at the Truman Student Research Conference. (Sept 2013 - May 2015)
Advisor: Dr. Vayujeet Gokhale, gokhale@truman.edu
- Automate apparatus for collecting optical data, collect data, and improve setup for future researchers. (Sept 2018-May 2019)
Advisor: Dr. Michael Goggin, mgoggin@truman.edu
- Use Python-based API Tensorflow to write a simulation that does dark matter orbit computations in parallel using GPU. (Jan-May 2019)
Advisor: Dr. Timothy Wiser, twiser@truman.edu

Ozark Caverns, Missouri Dept. of Natural Resources - *Interpreter*, May 2013 - Aug 2013

- Provide a positive experience for park guests; know about a wide variety of topics, including geology, natural history, and biology; assist with data entry in the Visitor's Center; teach workshops on biological systems to 4-H campers (ages 6-12); lead and educate large groups during cave tours. Supervisor: Cindy Hall (573) 346-2500

AWARDS

Vice-President of Academic Affairs List, Spring 2018 and Spring 2019

ACTIVITIES

Society of Physics Students, 2018-2019

Women in Physics, 2018-2019