MATHEW M. POTTS

RESEARCH SCIENTIST

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EDUCATION

Doctorate of Philosophy, *Physics* Aug. 2015 – May 2022

University of Utah, Salt Lake City, Utah

SKILLS

Programming languages: Python, Java, C, C++, R, CERN ROOT, MATLAB, Mathematica, LabVIEW

Markup Languages: HTML, CSS, LaTeX

Linkedin Skill Badges: Angular, React.js, Google Cloud Platform, Java, Microsoft Azure, Amazon Web Services, Machine Learning, Python

Miscellaneous: Strong analytical problem-solving experience, excellent verbal and written communication skills, great in solo or collaborative environments, Proficient in all MS programs, and experience in Linux shell scripting.

EXPERIENCE

Postdoctoral Research Fellow May 2022 – Aug. 2023

Department of Physics, Georgia Institute of Technology

- Designed the remote observation procedures, software, and hardware for experiment.
- Built and tested all aspects of the Trinity Demonstrator telescope.
- Designed and tested the cooling system using Solidworks.
- Performed simulation using CORSIKA, GrOptics, and C++ in order to analyze the performance of the full Trinity Observatory and Demonstrator telescope.

Research Assistant Aug. 2015 – Present

Department of Physics and Astronomy, University of Utah

- Calculate the energy spectrum of ultra-high energy cosmic rays using hybrid detection.
- Maintained and operated surface and fluorescence detectors.
- Linux systems administrator of the Telescope Array's data server and computational cluster at the University of Utah.
- Analyzed detector's sensitivity with Monte Carlo simulation.
- Performed two experiments at Stanford Linear Accelerator Center.
- Calibrated of scientific equipment.