Sarah Skinner
Graduate Student

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Education

Carnegie Mellon University (CMU) 3.8/4.3
Ph.D. in Physics *Aug 2020 - Aug 2024*

Missouri University of Science and Technology (Missouri S&T) 3.9/4.0
B.S. Physics, *Minors in Computer Science, Mathematics* *June 2016 - Dec 2019*

Research Projects

Calculating Resonance Information from Lattice QCD (CMU) PITTSBURGH, PA
Advisor: *Dr. Colin Morningstar.* Investigation into how resonances impact the scattering of hadrons. *Jan 2021 - Present*

Analysis on GlueX Data (CMU) PITTSBURGH, PA
Advisor: *Dr. Curtis Meyer.* Isolated scattering channels in Gluex detector data. *Aug 2020 - Dec 2020*

Scalability Improvement of Plasma Simulation (NASA Glenn) CLEVELAND, OH
Advisor: *Dr. Maria Choi.* Improved methods within a hybrid fluid/Monte Carlo plasma simulation in confined geometries to predict physics in an ion thruster. *Jan 2020 - May 2020*

Anomalous Diffusion in Confined Geometries (Missouri S&T) ROLLA, MO
Advisor: *Dr. Thomas Vojta.* Modeled anomalous diffusion determined by the fractional Langevin equation using Monte Carlo methods. *Jan 2018 - Dec 2019*

Errors in Dark Matter Halos Fit Model (Brookhaven National Laboratories) UPTON, NY
Advisor: *Dr. Anže Slosar.* Inserted error into dark matter fit model to assess its significance. *Jun 2019 - Aug 2019*

Binary Black Hole Model (Louisiana State University) BATON ROUGE, LA
Advisor: *Dr. Peter Diener.* Added rotation parameter for smaller black hole in binary system with a high mass difference. *May 2018 - Jul 2018*

Computer Skills

C++	PYTHON	LATEX	FORTRAN	MATHEMATICA
MPI	OPENMP	LINUX	WINDOWS	MICROSOFT OFFICE

Conferences

Lattice Conference 2023	FERMILAB, IL, AUGUST 2023
American Physical Society Topical Group on Hadronic Physics Meeting	MINNEAPOLIS, MI, APRIL 2023
American Physical Society March Meeting	BOSTON, MA, MAR 2019
American Physical Society April Meeting	MINNEAPOLIS, MI, APRIL 2023
Conference for Undergraduate Women in Physics	CORPUS CHRISTI, TX, JAN 2019

Workshops

National Nuclear Physics Summer School	RIVERSIDE, CA, JULY 2023
Hampton University Graduate Studies (HUGS) Program (Jefferson Lab)	NEWPORT NEWS, VA, JUNE 2022
International HPC Summer School on Challenges in Computational Sciences	ATHENS, GREECE, JUNE 2022

Invited Talks

The role of exotic operators in determining the finite-volume spectrum from Lattice QCD and its consequences BNL, AUGUST 18, 2023