# STEVEN V. CLARK

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## EDUCATION

**Rutgers, The State University of New Jersey** — *Piscataway, NJ*
Ph.D. in Physics and Astronomy — *August 2018 - Present*

**Colorado School of Mines** — *Golden, CO*
B.S. in Engineering Physics; Magna Cum Laude — *August 2014 - May 2018*

## RESEARCH EXPERIENCE

**Multiphoton Resonance Search at the Compact Muon Solenoid** — October 2018 - Present
*Ph.D. Candidate, advised by Eva Halkiadakis* — *Rutgers University*

- Searching for Beyond Standard Model physics in proton-proton collisions at the Large Hadron Collider with the CMS detector
- Developing Machine Learning for identification of photons from detector images

**MUon proton Scattering Experiment (MUSE)** — June 2017 - May 2018
*Undergraduate Research, advised by Ron Gilman* — *Rutgers University*

- Developed particle tracking code for MUSE; constructed carbon fiber backing structures for scintillator detectors
- Member of Research Experience for Undergraduates program, continued for senior undergraduate thesis

## SCIENTIFIC OUTREACH

**STEM Room Volunteer** — January-May 2018
*Jefferson County Boys and Girls Club* — *Lakewood, CO*

- Leader of weekly Science Club, taught basic physics to students ages 7-13
- Taught computer skills, mentored students ages 6-18

**Tutor** — February-May 2017
*Lookout Mountain Youth Services Center* — *Golden, CO*

- Tutored students in high school math and science at maximum security youth prison

## FELLOWSHIPS & AWARDS

- National Science Foundation Graduate Research Fellowship Program — 2019
  *NSF GRFP, (3 years of funding)*
- SUPER-Grad Fellowship — 2018
  *Rutgers University, (1 year of funding)*
- Henry C. Torrey Fellowship — 2018
  *Rutgers University, (1 year of partial funding)*

## PROFESSIONAL TRAINING & CERTIFICATIONS

- Computational and Data Science for High Energy Physics Summer School — 2019
- Certificate of Training in Physics Mentorship — 2019

· Certificate of Training in Physics Teaching 2018

## TEACHING EXPERIENCE

· Physics 203- General Physics Summer 2019

## SKILLS & STRENGTHS

· Programming: Fluency in Python, C++, LaTeX, Mathematica; familiarity with Apache Spark
· Software: ROOT, PyTorch, Jupyter, NumPy, SciPy, Matplotlib, Linux

## CONFERENCES & PRESENTATIONS

· Track Reconstruction and the Proton Radius Puzzle 2017
*Poster Presentation, APS Division of Nuclear Physics Annual Meeting*

## PROFESSIONAL AFFILIATIONS

· Sigma Pi Sigma Physics Honors Society
· Tau Beta Pi Engineering Honors Society