

# James Shirk

## Home Address

Upon Request

## Phone Number

Upon Request

## Email

jamesshirk72@gmail.com

## EDUCATION

*Bachelor of Science, Physics*

Georgia State University, Atlanta, Georgia

May 2021

## PROFESSIONAL EXPERIENCE

*Georgia State University*

January 2020 – Present

Research Assistant

- Work under Murad Sarsour to analyze data collected at the PHENIX detector at RHIC. Extensive use of programming to analyze the collected data and modelling the physical applications of that data was done.

*Georgia State University*

March 2019 – October 2019

Research Assistant

- Work under Xiaochun He on cosmic ray detection studies. Experience was gained working hands-on with physics detectors and equipment. Experienced performing data analysis on data collected from said detectors. Attended two research conferences to present the research performed..

## COMPUTER SKILLS

Experienced in Python, C++, R, Java, CSS/HTML, ROOT Data Analysis Framework, Latex, Git, Linux. Ability to troubleshoot many problems and pick up new skills quickly.

## OTHER SKILLS

- Some electronics and integrated circuit experience
- Hands on skills developing physics-based detectors, particularly using scintillation materials and custom electronics
- General computer literacy and troubleshooting experience
- Novice Spanish speaking and reading skills

## CONFERENCE PRESENTATIONS

- “Invariant Yield of the  $\phi$  meson in p + p collisions” Georgia State University Summer 2020 Undergraduate Research Symposium, July 30, 2020, Atlanta Georgia
- “Constructing a Low Cost, Portable Cosmic Ray Muon and Neutron Detector” APS Division of Nuclear Physics, October 14-17, 2019, Washington D.C.
- “Portable Cosmic Ray Telescope Design and Construction” Inaugural International Workshop on Applications of Cosmic Ray Measurements, October 14-17, 2019, Atlanta Georgia

- “Low Cost Cosmic Ray Muon and Neutron Detection” Georgia State University Summer 2020 Undergraduate Research Symposium, August 5, 2019

### **MEMBERSHIPS**

American Physical Society  
Society of Physics Students

### **HONORS**

Full tuition scholarship, Georgia State University  
Fall 2018 Georgia State University President’s List  
Spring 2019 Georgia State University President’s List  
Fall 2019 Georgia State University President’s List  
Spring 2020 Georgia State University President’s List