Salvatore Zerbo

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EDUCATION

Drexel University Philadelphia, PA Sep 2014 – Jun 2019

BACHELOR OF SCIENCE IN PHYSICS

- Minors in Astrophysics and Mathematics
- Cumulative GPA: 3.87

HONORS & AWARDS

•	Dean's List	Sep 2014 – Jun 2019
•	A.J. Drexel Scholarship	Sep 2014 – Jun 2019
•	Drexel Dragon Award	Sep 2014 – Jun 2019
	STAR Scholar	Jun 2015 – Sep 2015

NOTABLE & RELEVANT COURSEWORK

- Data Structures | Systems Architecture | Numerical Analysis I, II
- Discrete Event Simulation | Intro to Optimization Theory

EXPERIENCE

University of Pennsylvania Philadelphia, PA Apr 2018 – Sep 2018

RESEARCH ASSISTANT

- Simulated self-interacting dark matter models using n-body simulations in GADGET on the NERSC computing cluster
- Wrote scripts for setting up initial condition states and performing data analysis in Python
- Discovered and analyzed issues with the setup of the initial condition states

Drexel University Philadelphia, PA Apr 2017 – Mar 2018 Sep 2018 – Jun 2019

RESEARCH ASSISTANT

- Designed a gui in Python for viewing and fitting bubble chamber data
- Designed and simulated a low energy neutron source for calibrations using GEANT4
- Aided in construction and performed routine maintenance and operation of prototype bubble chamber for dark matter detection

Temple University Philadelphia, PA Mar 2016 – Sep 2016

RESEARCH ASSISTANT

- Designed a gui in MATLAB for calculating film thickness and optical properties using acquired Ellipsometer data
- Prepared and grew superconducting MgB₂ thin films
- Collected and analyzed data on superconducting films for desired properties

Drexel University Philadelphia, PA Jun 2015 – Oct 2015

RESEARCH ASSISTANT

- Developed an algorithm for combining overlapping void regions into single spheroid object
- Converted SDSS data for visualization using Python and MATLAB
- Created 3D visualizations of voids and galaxies for analysis using VisIt

SKILLS

Python | MATLAB | C# | LaTeX | Simulations | Data Modeling & Analysis | Bash | Linux | Git | Racket | Debugging

ACTIVITIES

Drexel University

CLUBS

Track Club

Sep 2014 – Mar 2019

Travel Coordinator

Sep 2018 – Mar 2019

Vice President

Dec 2017 - Jun 2018