

Lewis Drakeley

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(585) 481-9303

Education

University of Rochester	Aug, 2019 – May, 2023
<i>Physics and Astronomy, Mathematics (BA)</i>	<i>GPA: 3.59</i>
<i>Dean's Scholar</i>	
<i>Dean's List</i>	

Research Experience

Research Assistant	May, 2022 – May, 2023
<i>University of Rochester</i>	<i>Rochester, NY</i>
<ul style="list-style-type: none">Conducted data analysis on $\sim 10^4$ galactic observations from the Dark Energy Spectroscopic Instrument (DESI) dataset.Developed and managed rigorous quality control protocols, relying on NumPy and Astropy Python packages to secure accurate outputs.Created data visualization algorithms for use in future publications.Acquired practical knowledge with Linux based terminals, version control via GitHub and Python.	

Work Experience

Resident Advisor	Aug, 2021 – May, 2023
<i>University of Rochester</i>	<i>Rochester, NY</i>
<ul style="list-style-type: none">Performed rotating on-call shifts to attend any emergencies of the ~ 800 residents and resolve any student concerns.Offered personal support, address misconduct, and facilitate conflict resolution for ~ 75 residents.Collaborated with fellow resident advisors to plan and execute community-building programs on both small and large scale.	
Training Team Leader Building Manager	Aug, 2021 – May, 2023
<i>University of Rochester, Goergen Athletic Center</i>	<i>Rochester, NY</i>
<ul style="list-style-type: none">Oversee all aspects of in-person and online training.Restructured the training procedure and introduced online components to overcome all restrictions.Facilitate continuous learning opportunities for new and existing building managers, ensuring consistent performance standards across the staff of ~ 40.	

Projects

Observational Astronomy	Jan, 2022 – May, 2022
<i>University of Rochester</i>	<i>Rochester, NY</i>
<ul style="list-style-type: none">Learned how to remotely observe galactic formations and hydrogen regions with control of the C.E.K Mees Observatory, utilizing the telescope control system and <i>TheSkyX</i> software.Performed image processing and data analysis via CCD Stack and Python programming.	
Drone Pilot Game (Java)	Aug, 2022 – Dec, 2022
<i>University of Rochester</i>	<i>Rochester, NY</i>
<ul style="list-style-type: none">Created a single user game to gain valuable hands-on experience with Java Swing, Graphics and Object-oriented programming. This project helped solidify my understanding of graphical user interfaces.	

Skills, Awards and Certifications

Google Data Analytics course	May, 2023 – July, 2023
<ul style="list-style-type: none">Utilized SQL programming and spreadsheets to perform analysis and calculations on various data sets.Created visualizations through Tableau and RStudio.	
Sigma Pi Sigma Physics Honors Society	<i>inducted 2022</i>
Fluent in Welsh, English and intermediate in ASL	