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## **EDUCATION**

| Aug 2023 - May 2027  |  |
|--|--|
| Aug 2022 - May 2023<br>Aug 2019 - May 2022   |  |
|  |  |
| <i>Summer 2021-Spring 2023</i><br>odules of quantum groups.  |  |
| <i>Summer 2020-Fall 2022</i><br>ntent of elliptical galaxies   |  |
| Fall 2020-Fall 2022  |  |
| Summer 2020  |  |
| Summer 2019  |  |
| Internship at Virginia Commonwealth University Summer 2018-Spring 2019   • Selected to work in the VCU School of Engineering Dean's Early Research initiative in the lab of Dr. Supriyo Bandyopadhyay and Dr. Ahsanul Abeed   • Simulated the effect of pressure on multiferroic nanomagnets with defects which resulted in two papers |  |
| Summer 2014<br>he lab of Dr. Sup<br>l in two papers  |  |

## PUBLICATIONS

[1] The effect of material defects on resonant spin wave modes in a nanomagnet, Scientific Reports, arXiv:2003.03833.

[2] Reliability of magnetoelastic switching of nonideal nanomagnets with defects: A case study for the viability of straintronic logic and memory Physical Review Applied, PhysRevApplied.12.034010.

[3] Updated Analysis of an Unexpected Correlation between Dark Matter and Galactic Ellipticity, Monthly Notices Royal Astronomical Society, doi.org/10.1093/mnras/stac3236

## **AWARDS & GRANTS**

Outstanding Undergraduate Physics Major Award 2022 | 2022 Edwin E. Floyd Prize in Mathematics | 3rd place, SPS December 2020 Research Symposium | UVA College Science Scholar and Echols Scholar | Eagle Scout

## **INVITED PRESENTATIONS**

[1] APS March Meeting 2019, Abstract: The Effect of Material Defects on Magneto-Elastic Switching

[2] Coxeter Systems and Examples - Talk for the Soergel Bimodules Seminar at UVA