

Andrew Vahlberg

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<https://meritpages.com/vahlbergaw>, <https://www.linkedin.com/in/vahlbergandrew/>

Education:

Candidate for a Bachelor of Science in Computational Physics (Sophomore), 2024-Present
Grove City College; GPA: 3.96

Research & Studies:

Academic Research on the Multilayer Reflector of the Six Spotted Tiger Beetle Spring 2025

- *Independently investigated the presence of a multilayer reflector in the beetle*
- *Researched previous studies, where the multilayer reflector has been well-documented*
- *Hypothesized that the reflective structures may reside in the surface layers of the elytra*
- *Successfully located what we believe to be the multilayer reflector within the top 1.5 microns of the elytra's surface*
- *Further analysis will be continued to characterize the spectrum of light produced by the multilayer reflector*
- Presentation of Research at the APS ECLS Spring 2025 Meeting April 2025
 - *Created a Poster Presentation for the research my partner and I had been conducting over the past semester on the Epicuticular Multilayer Reflector of the Six Spotted Tiger Beetle*
 - *Presented research to both interested individuals and judges*

SEM Training & Experience Fall 2024

- *Learned how to independently operate the college's Scanning Electron Microscope*

Volunteer, Internship, & Employment Experience:

Severna Park Evangelical Presbyterian Church Youth Intern Summer 2025

- *Worked with Middle and High School youth, where I organized events and retreats and built community and fellowship opportunities.*

Algebra 1 & Calculus I & II Tutor 2024-2025

Severna Park Community Center Lifeguard & Pool Operator 2022-2025

Class Treasurer for Senior Trip Fundraising 2022-2024

- *Independently managed income and expenses and organized patron interactions*

Awards & Affiliations:

Society of Physics Students International 2024-Present

American Physical Society 2024-Present

American Astronomical Society 2024-Present

Christian Service Brigade 2014-Present

Awarded Dean's List with High Distinction 2024-2025