

CONTACT INFORMATION	The College of William and Mary, Department of Physics 300 Ukrop Way Box 842014 Williamsburg, VA 23185 sjbevins@wm.edu	
EDUCATION	<b>PhD in Physics</b> - College of William and Mary, Williamsburg, VA	Aug. 2024 - Present
	<b>B.S. in Mathematics, B.S. in Physics (Dual Degree)</b> <b>Concentration in Mathematics</b> - Virginia Commonwealth University, Richmond, VA - Graduated Magna Cum Laude in Mathematics and Physics	Dec. 2023
	<b>A.S. of Science in Science</b> - Virginia Peninsula Community College, Hampton, VA - Graduated Magna Cum Laude	May 2021
RESEARCH EXPERIENCE	<b>Graduate Research Fellow</b> , The College of William and Mary - Lattice QCD during Summer 2025, Quantum Information Science 2026 and beyond.	May. 2025 – Present
	<b>VCU Graph Theory Computational Discovery Lab</b> , VCU - Investigations on the balance number of a graph.	May. 2025
	<b>Graduate Research Assistant</b> , Virginia Commonwealth University - VCU Geometry Group	Jan. 2024 – May 2024
	<b>Undergrad Research Assistant</b> , Virginia Commonwealth University - VCU Geometry Group	Jun. 2022 – Dec. 2023
	<b>Science Undergraduate Laboratory Internship (SULI)</b> , U.S. Department of Energy - Host laboratory: Thomas Jefferson National Accelerator Facility	Aug. 2022 – Dec. 2022
	<b>VCU Graph Theory Computational Discovery Lab</b> , Virginia Commonwealth University - Topics Explored: Graphs, Knots, and Independence	May 2022
	<b>Science Undergraduate Laboratory Internship (SULI)</b> , U.S. Department of Energy - Host laboratory: Thomas Jefferson National Accelerator Facility	Jan. 2022 – May 2022
	<b>Community College Internship (CCI)</b> , U.S. Department of Energy - Funded by: U.S. Department of Energy - Host laboratory: Thomas Jefferson National Accelerator Facility - Mentor: David Richards, PhD	Jan. 2021 – May 2021
TEACHING EXPERIENCE	<b>Graduate Teaching Assistant</b> , College of William and Mary - Laboratory instructor for physics courses. - Teaching Assistant for University Physics and Honors University Physics	F24, S25, F25
	<b>Mathematics Teacher</b> , Huntington Learning Center - K-12 Mathematics teacher, SAT and ACT Prep Tutor	Feb. 2024 - Present
	<b>Graduate Teaching Assistant</b> , Virginia Commonwealth University	S24

- GTA for Precalculus

**Undergraduate Teaching Assistant**, Virginia Commonwealth University  
- Classroom Assistant: Precalculus

F21, Sp23, F23

**Peer Tutor**, Virginia Peninsula Community College

F20

- Online tutor for Precalculus 1 (College Algebra) and Precalculus 2 (Trigonometry)

## PUBLICATIONS

1. M. Aldi, **S. Bevins**, Chatzitheodoridis, S Da Silva, Q. Frias, T. M. Gomez. (2026) THE DE RHAM COHOMOLOGY RING OF NILMANIFOLDS ASSOCIATED WITH PATH GRAPHS *In Preparation*
2. M. Aldi, **S. Bevins**. (2023) 2-step Nilpotent  $L_\infty$ -algebras and Hypergraphs *Journal of Pure and Applied Algebra*, no. 107593. [Available here](#)

## PRESENTATIONS

1. M. Aldi, **S. Bevins**.  $L_\infty$ -cohomology of Completely Prunable Hypergraphs.
  - Joint Mathematics Meetings, PME Contributed Session on Research by Undergraduates. (Jan. 2024)
  - Virginia Academy of Sciences Annual Meeting. (May 2024)
2. M. Aldi, **S. Bevins**.  $L_\infty$ -cohomology of Completely Prunable Hypergraphs. Poster Presentation at the Mid-Atlantic Algebra, Geometry, and Combinatorics (MAAGC) Workshop. (Dec. 2023)
3. M. Aldi, **S. Bevins**.  $L_\infty$ -algebras and Hypergraphs. Presented at
  - Joint Mathematics Meetings, AMS Contributed Paper Session on Commutative Rings and Algebras, and Algebraic Geometry. (Jan. 2023)
  - Central States Math Undergraduate Research Conference. (Feb. 2023)
  - ODU Mathematics Awareness Conference. (Apr. 2023)
  - International Mathematics and Statistics Student Research Symposium (Apr. 2023)
  - MD-DC-VA MAA Spring 2023 Meeting (Apr. 2023)
  - 101<sup>st</sup> Annual Meeting of the Virginia Academy of Sciences (May. 2023)
4. **S. Bevins**. Results on the  $L_\infty$ -Cohomology of Completely Prunable Hypergraphs. VCU Discrete MathemaTea Invited Talk. (Sep. 2023)
5. M. Aldi, **S. Bevins**.  $L_\infty$ -algebras and Hypergraphs. VCU Poster Symposium for Undergraduate Reserach and Creativity. (Apr. 2023)
6. **S. Bevins**. Introduction to Hypergraphs and  $L_\infty$ -Algebras. VCU Student Geometry Seminar. (Feb 2023)
7. **S. Bevins**, D. Richards. Fast Pions on the Lattice. SULI Poster Presentation at Thomas Jefferson National Accelerator Facility. (Dec. 2022)
8. **S. Bevins**. Lie Algebras and Graphs. Presented at
  - VCU Math Grad Coffee Hour Invited Discussion. (Dec 2022)
  - VCU Student Geometry Seminar (Sep. 2022)
9. **S. Bevins**. Lie Algebra Cohomology. VCU Student Geometry Seminar. (Nov. 2022)
10. **S. Bevins**, D. Richards. High Momentum Pions on the Lattice. SULI Poster Presentation at Thomas Jefferson National Accelerator Facility. (Apr. 2022)
11. **S. Bevins**, D. Richards. Pions at High Momentum. CCI Poster Presentation at Thomas Jefferson National Accelerator Facility. (Apr. 2021)

UPPER LEVEL COURSEWORK (VCU)	<ul style="list-style-type: none"> <li>- MATH 502 (Abstract Algebra I), MATH 602 (Abstract Algebra II)</li> <li>- MATH 592 (Teaching and Communicating Mathematics)</li> <li>- MATH 507 (Bridge to Modern Analysis), MATH 707 (Functional Analysis)</li> <li>- MATH 511 (Applied Linear Algebra), MATH 610 (Advanced Linear Algebra)</li> <li>- MATH 556 (Graph Theory)</li> <li>- MATH 690 (Research Seminar)</li> </ul>		
UPPER LEVEL COURSEWORK (W&M)	<ul style="list-style-type: none"> <li>- PHYS 601 (Classical Mechanics)</li> <li>- PHYS 603 (Mathematical Physics)</li> <li>- PHYS 621 (Quantum Mechanics I), PHYS 622 (Quantum Mechanics II)</li> <li>- PHYS 610 (Classical Electrodynamics I)</li> <li>- PHYS 630 (Statistical Mechanics and Thermodynamics)</li> </ul>		
OEIS CONTRIBUTIONS	<ul style="list-style-type: none"> <li>- A360937, A361014, A360936, A360625, A360572, A360571, A363378, A361230, A362007, A364579, A364946, and A368135.</li> </ul>		
TECHNICAL SKILLS	Programming: Markup: Operating Systems:	MATLAB, Python, SageMath, Mathematica, PennyLane (minimal) $\text{\LaTeX}$ , Word, Excel, Markdown Windows, MacOS, Raspberry Pi OS, Linux	