

VINCENT A. SANTINI

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New Berlin, New York 13411

SUMMARY

Graduate physics student pursuing higher education and research in theoretical physics; interests range from quantum field theories, condensed-matter physics, and optical physics to cosmology and the General Theory of Relativity.

LinkedIn: <https://www.linkedin.com/in/vincentsantini2020>

ACADEMIC HISTORY

Doctor of Philosophy in Physics <i>Binghamton University</i>	<i>2024 – Present</i> <i>GPA: –/4.0</i>
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Bachelor of Science in Physics (Minor in Music) <i>State University of New York at New Paltz</i> <u>Honors</u> : <i>Magna cum laude, Dean's List (7 semesters)</i>	<i>2020 – 2024</i> <i>GPA: 3.65/4.0</i>
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EXPERIENCE

Teaching Assistant Binghamton University	<i>Aug 2024 – Present</i>
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- Working as a teaching assistant during time pursuing PhD at Binghamton University.

Math Tutor SUNY at New Paltz	<i>Jan 2024 – May 2024</i> <i>4 mo.</i>
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- Worked as a peer tutor for introductory and upper-division math courses.

Undergraduate Laboratory Assistant SUNY at New Paltz	<i>Jan 2024 – May 2024</i> <i>4 mo.</i>
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- Assisted Dr. Catherine Herne's Spring 2024 *Optics Laboratory* course.

Undergraduate Teaching Assistant & Tutor SUNY at New Paltz	<i>Aug 2023 – Dec 2023</i> <i>4 mo.</i>
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- Assisted and tutored Dr. Catherine Herne's Fall 2023 *General Physics I* course.

RESEARCH HISTORY

Optical Tweezer Calibration & Effects on Birefringent Crystals SUNY at New Paltz	<i>Aug 2022 – Jun 2023</i> <i>10 mo.</i>
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- Assisted Dr. Catherine Herne, Professor of Optical Physics in the operation of an optical tweezing setup, including first calibration of trap stiffness using NI LabVIEW software. Conducted research in the effects of Gaussian & Laguerre-Gauss intensity profiles on birefringent crystals (calcite) and bacteria in an optical trap.

TECHNICAL SKILLS

Programming Languages:

- Python
 - Manim
- Java
- MATLAB

Other Proficiencies:

- L^AT_EX
- GNU/Linux
- GitHub & Git Repositories

Updated 24 July 2024