



Press release
28 May 2025

Júlia Guerra Cavalero awarded an SPIE Optics and Photonics Scholarship

BELLINGHAM, Washington, USA — **Júlia Guerra Cavalero** has been awarded a 2025 Optics and Photonics Scholarship by SPIE, the international society for optics and photonics, for potential contributions to optics, photonics, or a related field.



Cavalero is a master's student at the Center for Lasers and Applications, part of the Nuclear and Energy Research Institute (IPEN) and the University of São Paulo in Brazil. With a background in dentistry and a growing interest in biophotonics, she is conducting interdisciplinary research under the supervision of Professor **Denise Maria Zezell**. Cavalero's work explores the interaction between Nd:YAG lasers and dental enamel to enhance light-based strategies for caries prevention. A member of the IPEN Student Chapter of OPTICA, SPIE, and IEEE, Cavalero values education and outreach as essential tools for sharing scientific knowledge and inspiring future generations.

This month, the Society is awarding \$323,000 in scholarships to 74 outstanding SPIE Student Members, based on their potential contribution to optics and photonics, or a related discipline. Successful applicants were evaluated, selected, and approved by the SPIE Scholarship Committee, chaired by SPIE Senior Member **Brian Primeau**.

Since this program began in 1978, SPIE has distributed more than \$7.5 million dollars in individual scholarships. This ambitious effort reflects the Society's commitment to education as well as to the future generations of optical scientists and engineers around the world.

To view other 2025 scholarship press releases as they become available, please visit the [2025 Scholarship Recipients page](#) or learn more about [SPIE scholarships](#) on spie.org.

SPIE, the international society for optics and photonics, brings engineers, scientists, students, and business professionals together to advance light-based science and technology. The Society, founded in 1955, connects and engages with our global constituency through industry-leading conferences and exhibitions; publications of conference proceedings, books, and journals in the SPIE Digital Library; and career-building opportunities. Over the past five years, we have invested more than \$25 million in the international optics community through our advocacy and support, including scholarships, educational resources, travel grants, endowed gifts, and public-policy development. www.spie.org.

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