



Press release
28 May 2025

Emilia Wdowiak awarded an SPIE Optics and Photonics Scholarship

BELLINGHAM, Washington, USA — **Emilia Wdowiak** 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.



Wdowiak is a PhD student at the Warsaw University of Technology (Poland), specializing in quantitative-phase imaging. Her research integrates optics, nanofabrication, and computational methods to advance metrological development of novel quantitative-phase microscopy techniques. With a strong engineering background, she develops two-photon polymerization technique for optical metrology purposes. She fabricates nanoscale 3D-printed calibration standards to enhance phase imaging precision, particularly in lensless holographic microscopy. Passionate about translational research, Wdowiak aims to expand the reach of computational microscopy for broader use in biology and medicine. She actively engages with the international photonics community through conferences and interdisciplinary collaborations.

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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