



Press release
24 May 2024

Md Mahadi Masnad awarded an SPIE Optics and Photonics Scholarship

BELLINGHAM, Washington, USA — **Md Mahadi Masnad** has been awarded a 2024 Optics and Photonics Scholarship by SPIE, the international society for optics and photonics, for potential contributions to optics, photonics, or a related field.



Masnad is pursuing his PhD studies in the Énergie, Matériaux, et Télécommunications Department at Institut National de la Recherche Scientifique (Canada), under the supervision of **Professor Roberto Morandotti**. His research primarily focuses on wave-based neuromorphic computing. Previously at McGill University, he worked on the inverse design of nanophotonic components tolerant to fabrication imperfections, under the supervision of Professor Odile Liboiron-Ladouceur in collaboration with National Research Council, Canada. He has also contributed to the design of an 850-nm optical receiver in silicon, and the development of machine learning models for improving fabrication fidelity. “I have been exploring novel methods of photonic neuromorphic computing utilizing third-order nonlinearity-based wave-mixing,” says Masnad. “Thanks to SPIE for supporting me in my journey of growing as an academic leader through innovative research in photonics. I look forward to advancing this field and inspiring the next generation of researchers.”

This month, the Society is awarding \$303,000 in scholarships to 72 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 2024 scholarship press releases as they become available, please visit the [2024 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, SPIE has contributed more than \$24 million to 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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