Press release
24 May 2024

Armand Duvenage awarded an SPIE Optics and Photonics Scholarship

BELLINGHAM, Washington, USA — **Armand Duvenage** 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.

Duvenage is a master's student at the University of Pretoria (South Africa), studying under **Professor Warren du Plessis** in the Electronic Warfare group. Duvenage has developed a single-pixel imaging method that combines rosette-scan optics and tomography reconstruction to produce images. This imaging method features a dynamic resolution and update rate by simply modifying the angular velocities of the scanning optics. He is currently investigating how the inherent artefacts that are produced by the imaging method could be mitigated. Furthermore, he is investigating alternative scanning methodologies that could be integrated into single-pixel imaging technologies. Moreover, Duvenage has published a journal article and a conference paper on his findings.

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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