



Prix Jean Jerphagnon, lauréat 2025 : Alexandre AUBRY

After studying at the Ecole Supérieure de Physique et Chimie Industrielles in Paris, Alexandre Aubry obtained his doctorate from the Université Pierre et Marie Curie under the supervision of Arnaud Derode in 2008. He spent a postdoctoral period at Imperial College London in John Pendry's team, before joining the Institut Langevin in Paris as a CNRS research fellow in 2012. Since then, Alexandre Aubry has been developing a matrix approach to wave control and imaging through complex media. He carries out this interdisciplinary research in connection with applications ranging from optical microscopy and seismology to acoustics and microwaves. In 2019, he was awarded his first ERC Consolidator grant, which enabled him to develop a universal approach to imaging complex media, with applications ranging from ultrasound to seismology and optical microscopy. Recently, he funded the start-up company OWLO in collaboration with two former doctoral students, Paul Balondrade and Victor Barolle, and a mathematician, Nicolas Guigui. This spin-off of Langevin Institute aims to market a matrix microscope resulting from the research work carried out as part of his ERC project. This revolutionary microscope transfers the complexity of the microscope from the hardware to software. Its range of applications is vast going from embryology and organoids to ophthalmology or dermatology.

[Video - Alexandre AUBRY](#)