

CHRISTIAN SALVATORE, PhD

Education

Christian Salvatore, born in 1987, has a master's degree in physics (110 cum laude) and a Ph.D. in Physics, obtained at the University of Milan-Bicocca. In 2019, he attended the Winter School of Science and Technology Entrepreneurship Promotion (STEP) promoted by the University of Milano-Bicocca, to develop competencies for the development of a technological startup.

Professional Experience

From November 2019 to November 2022, Christian has been Senior Researcher, and since November 2022 Associate Professor at the University School for Advanced Studies IUSS Pavia, teaching "Machine Learning in Healthcare" and "Artificial Intelligence". He works on research projects in the field of Artificial Intelligence (AI), with applications in particular on human health. Since 2023 he is founder and director of the Artificial Intelligence Research Center AILICE Labs at IUSS.

In July 2018, Christian co-founded DeepTrace Technologies S.R.L., and he currently holds the role of CEO and CIO of the company. In March 2020, the startup was recognized as a spin-off of IUSS.

From 2013 to 2019, Christian has been research collaborator (research fellow) of the Italian National Research Council, at the Institute of Bioimaging and Molecular Physiology.

His scientific research is focused on the development of machine learning methods applied to medical imaging, characterized by a highly interdisciplinary approach, with applications to clinical studies, also in collaboration with IRCCS and Hospitals. He has 49 scientific publications indexed on Scopus, 70% of which in primary position (with the role of first, corresponding or last author), for a total of 1627 citations and H index equal to 19.

During his career, Christian has gained experience in the participation and management of innovative research projects by participating in more than 15 research projects, 5 of which as Scientific Responsible.

He is member of the doctoral teaching board of "The Hadron Academy: Risk and complexity in high tech medical innovation", a PhD course jointly held by IUSS and CNAO (Pavia, Italy).

He is scientific evaluator of research projects for the Royal Society (royalsociety.org, London), Associate Editor (by invitation) of the scientific journal *Frontiers in Neuroscience* and works as scientific reviewer in international scientific journals in the neuroscience sector, such as *Human Brain Mapping*, *Journal of Neuroscience Methods*, *Frontiers in Aging Neuroscience*, *Frontiers in Computational Neuroscience*, *Neuroimage Clinical*, *Nature Scientific Reports*. He was a member of the editorial board of *European Radiology Experimental* from 2021 to 2024.

He has held teaching and training assignments, in particular he has been supervisor and co-supervisor of several bachelor's and master's degree theses, and head of 5 internships at DeepTrace Technologies. He has also carried out over 20 seminars and lectures by invitation in national and international conferences and schools.

Christian is co-author of 3 patented software, 2 CE certified medical devices, and 1 international patent.

Awards

- FORBES 30 UNDER 30 Award for Science and Healthcare;
- Scientific Award of the Department of Biomedical Sciences of the National Research Council;
- "Youth in Action for Sustainable Development Goal" Award by the Italian Accenture Foundation, the Eni Enrico Mattei Foundation and the Giangiacomo Feltrinelli Foundation, received at the Chamber of

Deputies, in the presence of the President of the Republic, Sergio Mattarella, the President of the Chamber of Deputies, Laura Boldrini, the President of the Conference of Rectors of Italian Universities, Gaetano Manfredi and other important authorities.

- Peres Heritage Initiative Award, received at the European House - Ambrosetti (Villa d'Este, Cernobbio) during the gala dinner, on the occasion of the annual Forum "Intelligence of the world, Europe, Italy" (1-3 September 2017), an international that has brought together, since 1975, Heads of State and Government, top representatives of international institutions, Ministers, Nobel laureates, entrepreneurs, managers and experts to discuss issues impacting the global economy and society as a whole.
- Civic Merit Luit d'Oro City of Nova Milanese 2017, awarded by the City of Nova Milanese "for the prestigious national and international results in scientific research".
- Angelo Marai 2017 Award, by ASIS (Association of Health Industry Studies) and the Carlo Erba Foundation to a research doctor who during his doctoral period has carried out particularly innovative research which can form the basis of programs future in the field of neurodegenerative diseases.
- "Progetto Diventerò" 2017-2018 Award, assigned by the Bracco Foundation and aimed at accompanying talented young people in their training and professional process.