

Stefano Bonora,
Dynamic Optics srl
and
National Council of Research -
Institute for Photonics and Nanotechnology



CURRICULUM VITAE

Work experiences:

2020 – Today	CEO of Dynamic Optics srl
2004 – Today	Senior researcher for National Council of Research of Italy (CNR) - Institute for Photonics and Nanotechnology (IFN) at the Unit of Padova (from 6/2024 part time)
2017	Consultant for the Extreme Light Infrastructure (ELI, https://www.eli-beams.eu/en/) laser facility in Prague (Czech Republic)
2016 – 2018	Member of the board of the Institute of Photonics and Nanotechnology of CNR
2013- 2015	Part time senior research scientist at Hilase project (www.http://hilase.cz/), Institute of Physics, Academy of Science of Czech Republic

Teaching experience:

AA2013-AA2018	Lecturer of the course of “Optical Microscopy” at the Faculty of Physics and Astronomy of the University of Padova
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Spin off:

2017	Founder of the spin-off of CNR <i>Dynamic Optics srl</i>
2009	Founder of the spin-off of the University of Padova <i>Adaptica srl</i> .

Coordination track record: Stefano coordinated more than 20 projects, with both foreign institutes and companies, for the realization of adaptive optics systems for femtosecond laser pulse compression, high power laser aberration correction, ophthalmic instruments and atmospheric turbulence correction.

Education:

2005-2007 PhD in Electronic and Telecommunication Engineering at the University of Padova in December 2007
2003 Master Degree in Applied Optics at the Department of the Information Engineering, University of Padova
2000 Laurea degree in Electronic Engineering, University of Padova
1994 Technical Education in Electronics (ITIS E.Fermi, Mantova - 60/60) – Unindustria Best students award.

Main research interests:

- Design and realization of devices and control algorithms for adaptive optics.
- Application of adaptive optics in microscopy, medical imaging, OCT, high power laser and femtosecond laser pulse shaping.

Organization of International conferences:

- He is in the scientific board of the conference “International Workshop on Adaptive Optics for Industry and Medicine” since 2015
- He organized and chaired the “International Workshop on Adaptive Optics for Industry and Medicine” in Padova, Italy, June 2015 and 2024
- He is in the Program Committee Member of the conference “Laser + Optics” (San Petersburg, Russia, 2015 – 2020), ISOT (International Symposium on Optoelectronics Technology).

Highlights:

He supplied deformable mirrors for many international organization and facilities. Among them Fritz Haber Institute (Berlin, Germany), Rutherford Appleton Laboratory (Oxford, UK), Food and Drug Administration (USA) and Lawrence Livermore National Laboratory (USA).

He invented 4 new types of deformable mirrors and adaptive lenses that have been highlighted by interviews and on technology reports (Nat. Phot. Tech Focus 2011, photonics.com 2010, PHYSSorg.com 2010)

He designed the deformable mirrors *PAN*, *SATURN*, and the Adaptive Optics didactical kit *DIDAPTICA* that has been worldwide distributed by Edmund Optics (2009-2015).

He is author of more than 70 peer review publications on scientific journals (9 as first author, one on Nature Physics, two as unique author), two book chapters and of 8 patent applications (3 of them granted to companies and internationally extended).

Winner of the first prize of the Italian national business plan contest: *Start Cup 2004*.

Other experiences:

July 2015	Visiting scientist at the Simon Fraser University, Vancouver, Canada (Resp. Prof. M.Sarunic).
June, 2012 and July 2013	Visiting scientist at the Visual Science Retinal Imaging Lab, Uc Davis, Sacramento (Resp. Dr R.Zawadzki).
July 2011	Visiting scientist at the National University of Ireland, Galway (Resp. Prof. C.Dainty).
July 2008	Visiting scientist at Insitute non Lineaire of Nice (INLN (Resp. Dr S.Residori).
Oct 2006 to Sept 2007	Visiting Scientist at the Central Laser Facility - Rutherford Appleton Laboratory and Clarendon Laboratory Oxford University (Resp. Dr J.Collier and Prof. A.Cavalleri)
2010	Member of the steering committee of the project Skiascopy between Adaptica srl and the NGO CMB Italy for the realization of a skiascope for the third world (2010).
	Reviewer for Nature Photonics, Optics Letters, Optics Express, Optics Communication and Journal of Optics