
LLUÍS TORNER

CV

SCIENTIFIC DIRECTOR :

ADVANCEMENT OF LASER FOR MEDICINE

June , 6th, 2012, Barcelona

Lluís Torner, PhD., Director of The [Institute of Photonic Sciences](#) (ICFO)
Berga (Barcelona) 1961

EDUCATION

Degree in Physical Sciences from the Autonomous University of Barcelona
PhD in Sciences from the Technical University of Catalonia
Postdoctoral researcher and collaborator of several US Universities and institutions.

CAREER

Professor at the Technical University of Catalonia – Barcelona Tech
Founder and Director of ICFO - The Institute of Photonic Sciences, Barcelona

MAIN HONOURS

Fellow Optical Society of America
Fellow European Physical Society
Fellow European Optical Society
Extraordinary PhD Thesis Award, Universitat Politècnica de Catalunya 1992
Outstanding Young Researcher Award, GenCat, 2000
Speaker, 50 Years of Lasers, Royal Academy of Sciences and Arts Barcelona, 2010
Monturiol Medal for Outstanding Research Achievements, 2010
Optoel Trajectory Award, 2011
European Physical Society Service Appreciation Award, 2011
Optical Society of America Leadership Award 2011

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MAIN ADVISORY POSITIONS

Board of Directors, European Physical Society, Quantum Electronics & Optics Division
Board of Stakeholders, European Technology Platform Photonics21
Board, International Council for Quantum Electronics
International Council, Optical Society of America
Managing Board, Ontario Centre of Excellence for Commercialization of Research
Board of Management, LaserLab Europe
Chair, European Centres for Outreach in Photonics Alliance
President, Association of Research Institutions of Catalonia

Senior advisor of several Universities, national research agencies and industrial corporations based in the USA, EU, Canada and Australia in search and promotion committees and in research, innovation and entrepreneurship policies at large

RESEARCH

Conducted research and education in several areas of Photonics, with an emphasis in nonlinear optics, for about 25 years. The primary focus of his research has been the study of the properties of optical solitons and their applications to signal processing, all-optical switching, routing and communications. The ultimate aim is the elucidation of new strategies to enhance the capacity of optical devices that process information by putting forward new phenomena based on the control of light-by-light. Co-author of more than 350 peer-reviewed journal scientific publications, which hold more than 9,000 ISI quotations. Over 100 publications in Optics Letters and Physical Review Letters. Current h-factor: about 50. Contributions selected to belong to the Optics of the Year special issues of Optics and Photonics News (Optical Society of America) in 1995, 1997, 1999, 2001, 2002, 2003, 2006, 2007, 2008, 2009 and 2010. Cover page and cover story of Nature Physics, May 2007, for the invited overview paper “Twisted Photons”. Invited commentary on the roadmap “Charting the Future for Europe”, for Nature Photonics, March 2008. Included in ISI’s Highly Cited Scientists.

AN INITIATIVE OF:

