

PERSONAL INFORMATION

Name: Goëry Genty

I carry out both experimental, numerical, and theoretical work in ultrafast photonics. I have extensive expertise in ultrafast photonics, nonlinear dynamics and supercontinuum generation, sensing and imaging. I am the **Director of PREIN, the Flagship on Photonics Research and Innovation** awarded in 2019 by the Academy of Finland. The Flagship is a joint national program for Photonics multi-disciplinary science and technology development, **involving more than 50 professors and 400 researchers, with an annual budget of 8 M€**. I am also the **Director of FinnLight, the Finnish national infrastructure for light-based technologies** which is part of the Academy of Finland National Roadmap for Research, Development and Innovation. I am also strongly involved in educational developments as the head of Tampere University International Master Program in Photonics Technology and local coordinator of the EUROPHOTONICS Erasmus Joint Degree Program.

SUMMARY OF SCIENTIFIC ACHIEVEMENTS AND ACTIVITIES

- **>120 papers** in peer-reviewed journals and books including high impact journals (Nature Physics, Nature Photonics, Nature Reviews Physics, Nature Communications, Reviews of Modern Physics, Physical Review Letters, Optica, etc.)
- **7 review papers** (Reviews of Modern Physics, 2 in Nature Photonics, Nature Reviews Physics, 2 in JOSAB, Progress in Optics)
- Citations: **14000** (Google Scholar); h-index **46** (Google Scholar)
- Co-author **one of the highest cited recent papers in optical physics**; Rev. Mod. Phys. 78 1135-1184 (2006), >4000 citations (Google Scholar)
- **>140 invited conference presentations (all major conferences in Optics & Photonics)**; **>270** contributed conference presentations; **11** contributions at summer schools
- **Laureate of IUPAP Young Scientist International Prize in Optics in 2011**
- **Elected Fellow of the Optical Society of America in 2017**
- **Laureate of the Physics Prize of Finnish Academy of Science and Letters in 2019**
- **Associate Editor** for Optics Letters (2015-2021) and Scientific Reports (2012-present)
- **Member of the international day of light steering committee**

EDUCATION AND DEGREES

1999-2004 **D.Sc. (Tech) degree** Helsinki University of Technology, Department of Electrical and Communications Engineering, Metrology Research Institute, Finland
1995-1998 **M.Sc. degree** Ecole Supérieure d'Optique (Institute of Optics Graduate School), Orsay, France

CURRENT POSITION

2015- **Full Professor** Tampere University, Laboratory of Photonics

PREVIOUS POSITIONS

2016-2017 **Invited professor** University of Burgundy Franche-Comté, France (3 months)
2012-2014 **Tenure Track Associate Professor** Tampere University of Technology, Laboratory of Photonics
2009-2014 **Academy Research Fellow** Tampere University of Technology, Optics Laboratory. One of the most demanding post of the Finnish scientific system (< 5% success rate)
2007-2009 **Senior Researcher** Tampere University of Technology, Laboratory of Photonics
2004-2007 **PostDoc**, Helsinki University of Technology, Department of Electrical and Communications Engineering, Metrology Research Institute

FELLOWSHIP AND AWARDS

2019 **Physics Prize of Finnish Academy of Science and Letters** for his outstanding scientific career in Optics
2017 **Fellow of the Optical Society of America** for “pioneering research in the study of supercontinuum generation and nonlinear instabilities in optical fibers.
2011 **International Union of Pure and Applied Physics (IUPAP) Young Scientist Prize** “for outstanding contributions in pulse propagation and ultra-fast dynamics in nonlinear optical

fibers, particularly his groundbreaking results on supercontinuum generation and nonlinear instabilities.”

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2004 – 2021 15 Postdocs/ 15 PhD/ 17 Master Students (Aalto University and Tampere University, Finland)

FUNDING

In the past 14 years, I have been **one of the most successful researchers in Photonics funded by the Academy of Finland both in terms of number of projects (>10 projects funded) and total budget (over 12 MEur).**

SCIENTIFIC EXPERT POSITIONS

Evaluator

- 2015- **Evaluation** of professorships (Technical University of Denmark, Heriot-Watt University, University of Rochester, University of Auckland, Alexander Von Humboldt Professorship, Bar Ilan University)
- 2011- **Grant Proposal Evaluation** for European Research Council ERC (Starter and Consolidator), H2020 Future and Emerging Technologies, H2020 EIC Pathfinder, Israel Science Foundation (Israel), The Swiss National Science Foundation (Switzerland), Agence National de la Recherche (France), Engineering and Physical Sciences Research Council of United Kingdom (UK), The Netherlands Organisation for Scientific Research (The Netherlands), Deutsche Forschungsgemeinschaft (Germany)
- 2010- **Examinations** of >10 PhD theses abroad and in Finland

Editorial Board Member

- 2015-2021 Optics Letters (Optical Society of America)
- 2012- Scientific Reports (Nature Publishing Group)

Reviewer

Frequently consulted reviewer for high impact journals in Physics and Photonics e.g. Nature, Nature Physics, Nature Photonics, Nature Communications, Light Science and Applications, Laser Photonics Reviews, Optics letters, Optics Express, Applied Physics Letters etc.

International Conferences Committees

Committee member of all major conferences in Photonics

- 2016-2018 SPIE Photonics Europe, Sub-Conference on Nonlinear Optics and its Applications
- 2013-2021 Conference on Lasers and Electro-Optics Europe (Symposium chair, sub-committee chair)
- 2015-2021 SPIE Photonics West, Sub-Conference on Real-time Measurements, Rogue Phenomena, and Single-Shot Applications
- 2012-2016 Frontiers in Optics
- 2012-2015 IEEE Photonics Conference
- 2012-2014 Conference on Lasers and Electro-Optics Focus (chair in 2014)
- 2011-2013 Conference on Lasers and Electro-Optics
- 2010-2014 Nonlinear Photonics (sub-committee member and committee chair)

TEACHING ACTIVITIES

- 2018- Director of the International MSc Program in Photonics Technologies at Tampere University
- 2018- Local coordinator of the H2020 Erasmus Mundus Europhotonics joint-degree MSc Program
- 2015- Responsible for curriculum planning of post-graduate studies at Tampere Univ.
- 2011- Lecturer at 6 international training schools
- 2007- Responsible for 4 courses on Laser Physics, Nonlinear, and Ultrafast Photonics

INTERNATIONAL COLLABORATIONS

Prof. F. Dias (University College Dublin, Ireland), Prof. O. Bang (Danish Technical University, Denmark), Prof. J. M. Dudley (University of Burgundy Franche-Comté, France), Prof. N. Akhmediev (Australian National University, Australia), Prof. S. Wabnitz (Sapienza University of Rome, Italy)