

PERSONAL INFORMATION

Vittorio Bellani



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Nationality Italian

RESEARCH SUMMARY

Experimental physicist specializing in nanomaterials, graphene, scanning probe microscopy, quantum materials and energy materials

ACADEMIC POSITIONS AND RESEARCH APPOINTMENTS

- Nov. 2005 – present **Professor of Physics (Professore Aggregato)**
University of Pavia, Italy
- Jul. 1994 – Oct. 2005 **Assistant Professor of Physics**
University of Pavia, Italy
- Sept. 1994 – Jun. 1996 **Senior research fellow**
UAM – Universidad Autónoma, Madrid, Spain; Human Capital and Mobility fellowship of the European Union
- Sept. 1993 – Aug. 1994 **Teaching assistant**
University of Bergamo, Italy
- Oct. 1990 – Jun. 1993 **Junior research fellow**
EPFL – Swiss Federal Institute of Technology, Lausanne, Switzerland; CNR-FNSF mobility program

HONORS AND DISTINCTIONS

- 2025 **Beaufort Visiting Fellow**
St John’s College, University of Cambridge, United Kingdom; optical and scanning probe experiments on solid-state spins
- 2025 **Distinguished EPJ referee**
EPJ – European Physical Journal, Les Ulis, France;
<https://www.epj.org/distinguished-epj-referees>
- 2018 **Outstanding APS referee**
APS – American Physical Society, College Park, USA;
<https://journals.aps.org/OutstandingReferees>

RESEARCH AND TEACHING APPOINTMENTS

- 2018 summer term **Research Visitor**
University of California, Berkeley, USA; scanning probe microscopy experiments on molecular diffusion on graphene
- Since 2016 **Visiting professor (Alumnus)**
MIT – Massachusetts Institute of Technology, Electrochemical Energy Laboratory, Boston USA; fabrication and study of electrodes and electrolytes for lithium-ion batteries; <https://www.rle.mit.edu/eel/alumni>
- 2011 fall term **Visiting professor**
STUT – Southern Taiwan University of Science and Technology, Tainan; taught a master’s course in Optoelectronics
- 2010 spring term **Visiting professor**
Paul Sabatier University and LNCMI – National Laboratory for Intense Magnetic Fields, Toulouse, France; electrical and optical experiments on graphene and semiconductor 2DEGs in the extreme quantum limit

BOARD MEMBERSHIPS

- 2024 – present **Board member**
Grand Solutions Committee for Green Research, Technology Development and Innovation; Innovation Fund Denmark – IFD, Copenhagen, Denmark; <https://innovationsfonden.dk/en/grand-solutions-committee-green-research>
- 2020 – present **Board member**
Committee for International Cooperation and Development, University of Pavia, Italy; <http://cicops.unipv.it/>

TEACHING

- Since 2016 Applied physics (B.Sc.); Physics of solid-state quantum devices (M.Sc.)
University of Pavia, Italy

EDUCATION AND TRAINING

- Sept 1994 **PhD in Physics**
University of Pavia, Italy
- March 1990 **M.Sc. in Physics**
University of Pavia, Italy

SCIENTIFIC AND INNOVATION ADVISORY

- 2025 – present **Rapporteur**
European Institute of Technology – EIT Urban Mobility, Barcelona, Spain; Urban

Mobility program, which supports startups in solutions that contribute to the sustainable development goals related to sustainable communities, clean energy, and climate action

- 2023 – present **Technical expert**
European Climate, Infrastructure and Environment Executive Agency – CINEA, Brussels, Belgium; *Innovation Fund* program for the demonstration of innovative low-carbon technologies
- 2023 – present **Scientific expert**
Eureka Network for international cooperation in research, development and innovation – EUREKA, Brussels, Belgium; *Eurostars* funding programme for collaborative research and development projects led by innovative small- and medium-sized enterprises
- 2022 – present **Rapporteur**
Austrian Research Promotion Agency – FFG, Wien; *M-ERA.NET* network, established to support and increase the coordination of European research programs and related funding in materials science and engineering
- 2021 **Scientific expert**
Polytechnique Montréal, Canada; *Photonique Quantique Québec – PQ2*, a researcher-run funding organisation aiming to accelerate discovery and innovation in the field of quantum photonics
- 2021 – present **Vice-chair and rapporteur**
European Education and Culture Executive Agency – EACEA and European Research Executive Agency – REA, Brussels, Belgium; Higher Education projects and *Marie Skłodowska-Curie Actions*
- 2016 – present **Scientific expert**
COST Association, Brussels, Belgium; COST Actions, aimed at advancing knowledge and strengthening the research and development sector

PUBLICATIONS

Publication list available at Google Scholar:

<https://scholar.google.com/citations?hl=en&user=RgtfYoAAAAJ>

EDITORIAL AND REFEREEING ACTIVITY

- 2025 – present **Ad-hoc divisional associate editor**
American Physical Society (APS), College Park, USA; Physical Review Letters
- 2017 – present **Ad-hoc editorial board member**
American Physical Society (APS), College Park, USA; Physical Review B and Physical Review X
- 1996 – present **Referee**

Referee for journals published by:

American Institute of Physics – AIP, College Park, USA: Journal of Applied Physics, Applied Physics Letters, Review of Scientific Instruments

American Physical Society – APS, College Park, USA: Physical Review B, Physical Review Letters, Physical Review Materials, Physical Review X, Review of Modern Physics

Elsevier, Amsterdam, Netherlands: Applied Materials Today, Computational Material Science, Journal of Alloys and Compounds, Journal of Crystal Growth, Journal of Luminescence, Materials and Design, Materials Chemistry and Physics, Optical Materials

Institute of Physics – IOP, London, United Kingdom: 2D Materials, Journal of Physics D: Applied Physics, Materials Research Express, Nanotechnology, Physica Scripta

Royal Society of Chemistry – RSC, London, United Kingdom: Analyst, Nanoscale, Nanoscale Advances, RSC Advances

Springer Nature, Berlin, Germany: The European Physical Journal Plus

Wiley, Hoboken, USA: Advanced Optical Materials, Journal of Raman Spectroscopy, Laser & Photonics

LANGUAGES

Italian — Native

English — C2

French — C1

Spanish — C2