

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

## HONORS AND DISTINCTIONS

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

## RESEARCH AND TEACHING APPOINTMENTS

- 2018 summer term **Volunteer**  
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 AND EXPERT PANELS

- 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>
- 2023 **International Expert Panel Member**  
**Comparative Expert Assessment** of Research and Development Activities of Lithuanian Universities and Research Institutes; Research Council of Lithuania, Vilnius, Lithuania
- 2020 – present **Board member**  
Committee for International Cooperation and Development, University of Pavia, Italy; <http://cicops.unipv.it/board-and-statue/>

## TEACHING

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

## EDUCATION AND TRAINING

- 2012 **Habilitation for *Professore universitario di II fascia* in Italian universities**  
*Area – Fisica sperimentale della materia*
- 2010 **Habilitation for *Professeur des universités* in French universities**  
*Section 28 – Milieux denses et matériaux*

2008 *Habilitation for Profesor titular de universidad in Spanish universities*  
*Area – Física de la materia condensada*

Sept 1994 *PhD in Physics*  
*University of Pavia, Italy*

March 1990 *M.Sc. in Physics*  
*University of Pavia, Italy*

## SCIENTIFIC AND INNOVATION ADVISORY

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- 2025 – present *Member, College of Expert Reviewers*  
European Science Foundation (ESF), Brussels, Belgium; expert reviewer for the Research Foundation Flanders (FWO) Postdoctoral Fellowships Programme
- 2025 *External Expert Rapporteur*  
EIT Urban Mobility (European Institute of Innovation and Technology – EIT), Impact Ventures, Barcelona, Spain; evaluation of start-up applications for financial support, preparation of Summary Evaluation Reports (SERs), and participation in the consensus assessment process
- 2024 – present *Expert Evaluator, Information Science and Engineering (ENG) and Chemistry (CHE) Panels*  
Marie Skłodowska-Curie Actions (MSCA), European Research Executive Agency (REA), European Commission, Brussels, Belgium; expert evaluation, review and consensus assessment of proposals submitted to the Doctoral Networks and Postdoctoral Fellowships programmes
- 2023 – present *Scientific Expert*  
EUREKA Network, Brussels, Belgium; review and evaluation of Eurostars funding applications for collaborative research and development projects led by innovative small and medium-sized enterprises
- 2023, 2024 *Independent Technical Evaluator*  
European Climate, Infrastructure and Environment Executive Agency (CINEA) – Innovation Fund, Brussels, Belgium; technical evaluation of proposals under calls for battery manufacturing and net-zero technologies, including assessment of technological innovation, project maturity, impact, replicability and cost efficiency
- 2022 – present *Scientific Expert and Rapporteur*  
Austrian Research Promotion Agency – FFG, Vienna, Austria; review and consensus assessment of proposals submitted to the *M-ERA.NET* programme for transnational research and innovation projects in materials science and engineering
- 2021 – present *Evaluation Board Vice-Chair and Rapporteur*  
European Education and Culture Executive Agency – EACEA, Brussels, Belgium; assessment of Higher Education projects under the *Erasmus+* programme
- 2016 – present *Scientific Expert and External Evaluator*

COST Association, Brussels, Belgium; preparation of individual assessment reports and participation in consensus review panels for *COST Action* proposals

## 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** — C2

**Spanish** — C2

1<sup>st</sup> August 2026