

Dr Valentina Tozzini is Director of Research at the Istituto Nanoscienze – CNR, located in the NEST-Laboratory of the Scuola Normale Superiore, Pisa. Her research activity focuses on multi-scale computer modeling and simulations, applied to the design of advanced materials for the clean energy cycles, to the study of bio-molecular systems in the intra-cellular environment and to the development of new drugs, therapeutic constructs and strategies. VT is adjunct professor at the University of Pisa, Dept of physics. She is currently involved in several national and international projects and world-wide collaborations. VT was invited to over 50 conferences or seminars and is author of about 100 publications in international journals.

Appointments and memberships

- Scientific Board of Istituto Nanoscienze - Cnr
- Editorial Board of Frontiers in Molecular Biosciences, section “Biological Modeling and Simulations” (Associate Editor)
- Editorial Board of Molecules, (Guest Editor)
- National Habilitation as Full Professor of Applied Physics
- National Habilitation as Full Professor of Condensed Matter Physics (Theory)
- Member of the Marie Curie Alumni Association (MCAA)
- Remote referee for ERC, StG, panel PE4 (Physical and analytical Chemical Sciences)
- PRACE evaluation panel- ICEI for scalable computing resources, interactive computing services, Virtual Machine services and data storage
- Panel for assignment of computing resources within ISCRA (Italian SuperComputing Resource Allocation) at CINECA
- Adjunct professor of Numerical Methods for Physics at the University of Pisa, Dept of Physics (MS course)
- Adjunct professor of Introduction to Molecular Biophysics University of Pisa, Dept of Physics (MS course)
- Adjunct professor of Structure of Matter University of Pisa, Dept of Physics (BS Course)

RESEARCH PROJECTS

- 2022-2025: PRIN *Development of a Mutation-Independent Anti-SARS-Co2 Therapeutic Strategy*.
- 2020-2023: FET-Proact project *Light to Store chemical Energy in reduced Graphene Oxide for electricity generation (LESGO)*, funded by EU. Unit coordinator.
- 2019-2023 PRIN: *MONolithic STRain Engineering platform for TWO- Dimensional materials (MONSTRE 2D)* funded by MIUR. Unit coordinator
- 2013-2020: *Graphene flagship, Graphene core1 and Graphene core2*, funded by EU. Unit coordinator
- 2018-2020 Italy – Georgia Bilateral project *Morphing graphene chemical properties: a Density Functional Approach* (funded by MAE), PI
- 2017-2018 SEEDDeveLopment of a Coarse Grained MOdel for Nanoparticle-Protein IntEractions (funded by CNR). PI
- 2015- 2017 Marie Skłodowska-Curie Individual Fellowship: *Graphene curvature, flexibility and reactivity control by means of external fields: theory and computer simulations*, (funded by EU). PI
- 2013-2015 Bilateral Italy-Poland *Computer modeling and simulation of nucleic acids structure and dynamics* (funded by MAE) PI
- 2008-2012 PRIN: *Development of fluorescent proteins for optical nanoscopy oriented to the study of cellular dynamics*. (funded by MIUR), unit coordinator
- 2002-2004 FISR: *A new approach to drug design: from statistical mechanics to the screening of anti-viral drugs*. (funded by MIUR), unit coordinator
- 2002-2003 PA *Molecular dynamics of the green fluorescent proteins: An insight into the nature of the dark states*, (funded by INFN) PI
- 2001-now: ~ 20 grants for accessing HPC resources @CINECA

Biblio links

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Scopus: [6602188501](https://scopus.com/authid/detail.uri?authorId=6602188501)

Google Scholar: [9xqa4mwAAAAJ](https://scholar.google.com/citations?user=9xqa4mwAAAAJ)

Loop: [174125](https://loop.com/174125)

Research Gate: [Valentina Tozzini](https://www.researchgate.net/profile/Valentina-Tozzini)