

CURRICULUM VITAE ET STUDIORUM

Giancarlo Franzese

Tenured Professor (Profesor Titular)

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Date: **February 24, 2020.** All the information included in this document is true to the best of my knowledge. **ResearcherID: A-9655-2009. ORCID ID: orcid.org/0000-0003-3006-2766.**
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Short SUMMARY

Giancarlo Franzese leads a research group on Statistical Physics of Complex Matter at the University of Barcelona (UB). He got his PhD in Physics with honors at the University of Naples (1998) and was Associate Researcher at the University of Roma Tre, the Boston University, the Second University of Naples, and the Center for Statistical Mechanics and Complexity of “La Sapienza” University of Rome, before moving to Barcelona in 2003. He has been Visiting Scientist at the Boston University Center for Polymer Studies, UFRGS Porto Alegre, Centre for Bio-Nano Interactions–Dublin, University of Cambridge, International Center for Quantum Materials–Beijing. Since 2008 he is Tenured Professor (*Profesor Titular*) at UB. He won the CNR Prize as *Young CNR Research Fellow Abroad* (2000), the *UB Incentive Program for the Enhancement of Research Activity* prize (2012), the Royal Society of Chemistry-UK selection as *Emerging investigator in soft matter* (2012), the *Felix Città di Nola* prize (2016) as distinguished academic, the prestigious *ICREA Academia* (2017), a 5-year prize and research grant, for his excellence in science. He ranks within the *Top Italian Scientists in the World* in any scientific field¹ the *Top 20% of UB faculty members* for research, the *Top Scientists in Spain* in “Multidisciplinary Physic”¹ and in the past he was among the *Top 10 Scientists in Spain* in “Physics, Fluid & Plasmas”¹ and

¹<http://www.topitalianscientists.org> & <http://indice-h.webcindario.com>

“Mathematical Physics”¹. Since 2013 he is accredited as Full Professor in Catalonia. Since 2011 he is member of the *NanoSafety Cluster initiative*, since 2014 of the *International Advisory Board of the European Molecular Liquids Group*, since 2019 of the Steering Committee and the Outreach Commission of the *Institute of Nanoscience and Nanotechnology of the Universitat de Barcelona (IN2UB)* of which has been Guarantor from 2016 to 2018.

At UB he is coordinator of the Condensed Matter line of the PhD in Physics, Professor of the Master of Advanced Physics and in the Master of Atomistic and Multiscale Computational Modeling in Physics, Chemistry and Biochemistry, Professor of Physics and Professor of Biomedical Engineering. He supervised 8 Master theses and 15 PhD theses at UB, at Boston University and UFRGS. He is PI in international projects, with cumulative funds for more than 2M€. He organized 23 international conferences and chaired 15, on subject including Physical Biology and Molecular Biophysics. He is editor of three and referee for 64 international journals—including *Nature*, *PNAS*, *PlosOne*, *PRL*—and for 19 international grant agencies.

His research focuses on hydrated nanoscopic and biological systems and complex matter. He uses theoretical calculations and numerical simulations, often collaborating with experimental groups. He made 100 peer-reviewed publications, including book chapters, and gave more than 120 Invited Talks. He edited “Aspects of Physical Biology: Biological Water, Protein Solutions, Transport and Replication” (Springer 2008), “Nonequilibrium Phenomena in Confined Systems” (MDPI 2017), “Frontiers in Water Biophysics 2017” (Elsevier 2019) and published in high-impact journals such as *Nature*, *PNAS*, *PRL* with three of his papers listed among the *Highly Cited Papers in Physics*, and two in the *Core Papers in Liquid-Liquid Phase Transition ... Supercooled Water* of the last years². He was cited 4300 times with H-index 37 on Google Scholar, receiving interviews on radio and international press and doing scientific dissemination (e.g., on the Spanish edition of *Scientific American–Nature*).

²*Essential Science Indicators* of ISI Web of Knowledge