Daniele Coslovich - Brief CV

PERSONAL INFORMATION

Date of birth: 30/01/1980 Nationality: Italian

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CURRENT POSITION

Associate Professor
ACADEMIC TRACK
Abilitazione scientifica nazionale, professore di seconda fascia settore 02/B2
Habilitation à diriger des recherches (HDR)
Maitre de conférences (Associate Professor)
Maitre de conférences (Associate Professor)
Post-doc2008–2010Soft Matter Theory group, Technische Universität Wien, Austria
Ph.D. in Physics
Fellowship CNR-INFM
Laurea in Physics

Research

- Research interests: theory and simulation of supercooled liquids and glasses; soft condensed matter; sampling algorithms; machine learning; reproducible research
- Developer of the atooms Python framework for particle-based simulations and FOSS software for scientific computing
- 42 peer-reviewed articles (full list)
- 20 invited talks and 11 contributed talks at international conferences, 16 seminars (full list)
- h-index = 26 (Web Of Science, 2024)

SELECTED PUBLICATIONS

"Dimensionality reduction of local structure in glassy binary mixtures"
 D. Coslovich, R. L. Jack, J. Paret, The Journal of Chemical Physics 157, 204503 (2022)

- "A localization transition underlies the mode-coupling crossover of glasses"
 - D. Coslovich, A. Ninarello, L. Berthier, SciPost Physics 7, 077 (2019)
 - \rightarrow Selected as Scipost Select
- "Configurational entropy measurements in extremely supercooled liquids that break the glass ceiling" L. Berthier, P. Charbonneau, D. Coslovich, A. Ninarello, M. Ozawa, S. Yaida, Proceedings of the National Academy of Sciences 114, 11356 (2017)
- "Models and Algorithms for the Next Generation of Glass Transition Studies" A. Ninarello, L. Berthier, D. Coslovich, Physical Review X 7, 021039 (2017) \rightarrow Highly Cited Paper in the Web of Science database.
- "Novel approach to numerical measurements of the configurational entropy in supercooled liquids" L. Berthier, D. Coslovich, Proceedings of the National Academy of Sciences 111, 11668 (2014)
- "Locally preferred structures and many-body static correlations in viscous liquids" D. Coslovich, Physical Review E 83, 051505 (2011)
- "Single-Particle and Collective Slow Dynamics of Colloids in Porous Confinement" J. Kurzidim, D. Coslovich, G. Kahl, Physical Review Letters 103, 138303 (2009)

FELLOWSHIPS AND AWARDS
■ IOP Outstanding Reviewer Award 2022
■ JSPS Invitational Fellowship for Research in Japan (Short Term)
■ Prime d'encadrement doctoral et de recherche (PEDR)
■ Top reviewer award for the Journal of Chemical Physics
■ ICTP Award, International Center for Theoretical Physics (ICTP)
■ Luciano Fonda scolarship for undergraduate students in Physics
RESEARCH PROJECTS
■ Participant in ERC project
■ Principal investigator in PRACE project
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ACADEMIC SERVICE
■ Member of hiring committee for tenure-track researcher (RTT)
■ System administration of HPC cluster

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■ Member of hiring committee for tenure-track researcher (RTT)
■ System administration of HPC cluster
■ International relations delegate
■ Coordinator of seminars' organization
■ Member of Ph.D. board
■ Member of hiring committee for associate professor
■ Member of hiring committee for senior post-doc (RTDa)
■ Member of admission committee for the Collegio "Luciano Fonda"

■ Member of Ph.D. hiring committee
■ Head of the "Statistical Physics" group at the Charles Coulomb Laboratory
■ Member of "comité de section" (expert pool) CNU 28
Conferences' organization
■ Member of programme committee, "International Workshop on Dynamics in Viscous Liquids" 2015 Montpellier (France)
• Co-organizer of mini-colloquium "Fluids in confinment in and out of equilibrium"
■ Co-organizer of "Complex dynamics of fluids in disordered and crowded environments"

REFEREEING AND EVALUATION

- Referee for peer-review journals: Communications Physics, European Journal of Physics B, Journal of Chemical Physics, Journal of Non-Crystalline Solids, Journal of Physical Chemistry B, Journal of Physics: Condensed Matter, Journal of Statistical Mechanics, Nature Communications, Nature Physics, Physical Review B, Physical Review E, Physical Review Letters, Physical Review Research, Physical Review X, Proceedings of the National Academy of Sciences, Soft Matter, Science Advances, Scientific Reports, SciPost Physics,
- Reviewer for research funding agencies: Agence Nationale de la Recherche (ANR, French national research agency), Deutsche Forschungsgemeinschaft (DFG, German national funding agency), Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO, Dutch Research Council), Swiss National Science Foundation (SNSF), Natural Sciences and Engineering Research Council of Canada (NSERC), Université franco-allemande (France-Germany), Fondo Sociale Europeo, Regione Friuli Venezia-Giulia (Italy), Programma "Rita Levi Montalcini" (MIUR, Italian Ministry of University and Research), Labex PALM, Paris-Saclay (France),
- Member of 9 **Ph.D. committees**

Teaching

■ Taught topics: classical mechanics, thermodynamics, waves, dynamical systems, simulations met parallel computing, code optimization, software management.	hods,
■ Courses at the Licence, Master and Ph.D. level	2023
■ Tutorials on revision control methods (git) and reproducible research	2021–
■ Courses at the Licence and Master level	-2020
■ Tutorials on "Atomsitic simulations on graphics cards (GPU)"	-2020

TEACHING IN FOREIGN INSTITUTIONS

TEACHING SERVICE

■ Coordinator of the teaching committee on thermodynamics and statistical physics courses 2019 Département d'enseignement de Physique, University of Montpellier
■ Teaching supervisor of the 2nd year of Physics ("responsable d'année")
 Member of the teaching committee to organize Physics courses

STUDENTS' SUPERVISION

- Advisor of 3 **Ph.D. students**
- Co-advisor of 2 **Ph.D. students**
- Advisor of 8 master students
- Advisor of projects and internships for 8 **undergraduate students**