


PERSONAL INFORMATION	Michele Parrinello
PICTURE of YOURSELF	 IIT-CHT Via Enrico Melen 83, 16152 Genova, Italy
h-index: 134 total citations: 94706 papers: 651(source: scopus.com)	

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input checked="" type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE	■
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2021- present	<p>POSITION HELD Principle Investigator Istituto italiano di Tecnologia</p> <p>INSTITUTION ADDRESS michele.parrinello@iit.it Via Enrico Melen 83, 16152 Genova, Italy</p> <ul style="list-style-type: none"> Research topics: Atomistic Simulations <p>Research Atomistic Simulations</p>
2001 - 2020	<p>POSITION HELD Professor at ETH, Zurich and Università della Svizzera Italiana USI</p> <p>INSTITUTION ADDRESS: ETH Rämistrasse 101, 8092 Zürich, Svizzera USI, Via Giuseppe Buffi 13, 6900 Lugano, Svizzera</p> <ul style="list-style-type: none"> Research topics: Computational Sciences <p>Research</p>
1994 - 2001	<p>POSITION HELD Director at Max-Planck-Institut</p> <p>INSTITUTION ADDRESS Max-Planck-Institut für Festkörperforschung, Stuttgart, Germany, Indirizzo: Heisenbergstraße 1, 70569 Stuttgart, Germania Telefono: +49 711 6890</p> <ul style="list-style-type: none"> Research topics: Atomistic Simulations <p>Research: Atomistic Simulations</p>
1994 - 2001	POSITION HELD Director at Max-Planck-Institut
1991- 1994	POSITION HELD Manager, IBM
	<p>INSTITUTION ADDRESS Säumerstrasse 4, 8803 Rüschlikon, Svizzera Tel +41 44 724 81 11</p> <ul style="list-style-type: none"> Research topics: Atomistic Simulations <p>Research Atomistic Simulations</p>
1989 -1991	POSITION HELD Research Staff Member at IBM

	INSTITUTION ADDRESS IBM Research Laboratory, Zurich, Switzerland Säumerstrasse 4, 8803 Rüschlikon, Svizzera Tel +41 44 724 81 11
	<ul style="list-style-type: none"> Research topics: Atomistic Simulations
	Research: <u>Atomistic Simulations</u>

EDUCATION AND TRAINING	
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1968	Italian Laurea in physics, University of Bologna PhD supervisor: Prof. Dr. Bruno Ferretti, Bologna Postdoctoral supervisor: Prof. Dr. Mario Tosi
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PHD SUPERVISION	
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2021 - Present	Nicolò Pedrani
2021 - Present	Simone Perego
2020 - Present	Enrico Trizio
2018 – 2021	Jayashrita Debnath
2018 - 2021	Luigi Bonati
2017 -2020	Michele Invernizzi
2016 -2019	Emanuele Grifoni

INSTITUTIONAL RESPONSIBILITIES	
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2022	Member of External Evaluation of the National Institute of Chemistry by International Scientific Advisory Board
2022	Member of Scientific Advisory Board meeting at the Max Planck Institute for the Structure and Dynamics of Matter in Hamburg, Germany
2021	Member of ICTP Scientific Council Meeting
2000	Synergy ERC Grants

INVITED TALKS	
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	Several hundred seminars and colloquia delivered throughout the world at major universities, research and industrial laboratories and professional meetings.
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FELLOWSHIPS AND AWARDS	
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2021	The "Giulio Natta" Medal, Politecnico di Milano, Italy
2020	The European Chemistry Gold Medal, The European Chemistry Society, Brussels, Belgium
2020	Benjamin Franklin Medal in Chemistry (with R. Car), The Franklin Institute, Philadelphia, USA
2018	Ertl Lecture Award, Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, Germany
2018	ISQBP President's Award, The International Society of Quantum Biology and Pharmacology, Barcelona, Spain
2017	The Dreyfus Prize in Theoretical and Computational Chemistry, The Camille and Henry Dreyfus Foundation, New York, USA
2014 - Present	Socio nazionale, Accademia Nazionale dei Lincei, Rome, Italy (2014)
2012	Hirschfelder Prize, University of Wisconsin-Madison, USA
2012	Grande Ufficiale della Repubblica Italiana
2012	Foreign Member, The American Academy of Arts and Sciences, USA
2012	Enrico Fermi Prize, Italian Physical Society, Italy
2001- 2012	External Scientific Member, Max Planck Society, Germany
2011	Marcel Benoist Prize, Marcel Benoist Stiftung, Federal Dept. of Home Affairs, Switzerland
2010	Foreign Member, The National Academy of Sciences, USA
2010	Berni J. Alder CECAM Prize (with R. Car), CECAM, Switzerland
2009	Dirac Medal (with R. Car), ICTP Trieste, Italy
2009	Sidney Fernbach Award (with R. Car), IEEE Computer Society, USA
2009	FOMMS Medal Award, University of Michigan, USA
2008	Gutenberg Lecture Award, University of Mainz, Germany
2007	Foreign Member, Istituto Lombardo, Accademia di Scienze e Lettere, Milan, Italy
2006	Triennial Somaini Physics Prize, Italian Physical Society

2005	Socio nazionale Accademia Nazionale dei Lincei, Roma, Italy
2005	Schroedinger Medal of the World Association of Theoretically Oriented Chemists
2005	Fellow, World Association of Theoretically Oriented Chemists (WATOC)
2004	Member, European Academy of Sciences
2004	Foreign Member of the Royal Society, UK
2001	Award in Theoretical Chemistry, American Chemical Society
2000	Member, Berlin-Brandenburgische Akademie der Wissenschaften, Germany
1999	Honorary Member of the Materials Research Society of India
1995	Rahman Prize (with R. Car), American Physical Society
1995	Member, International Academy of Quantum Molecular Science
1994	Boys-Rahman Prize, Royal Society of Chemistry, UK
1992	Socio corrispondente, Accademia dei Pericolanti, Messina, Italy
1991	Fellow, American Physical Society
1990	Hewlett-Packard Europhysics Prize (with R. Car), European Physical Society

ADDITIONAL INFORMATION

	Parrinello has developed a wide range of methods that have greatly expanded the scope of atomistic simulations. His scientific interests are highly interdisciplinary and include the study of complex chemical reactions, material and protein dynamics. The over ninety thousand citations that his work has received testify to the impact of Parrinello's work. His contributions have entered university textbooks. He has trained hundreds of students and graduate students, many of whom now occupy leading positions in both academia and industry.
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PUBLICATIONS

<p>Publications best and most relevant in the last 10 years</p>	<ol style="list-style-type: none"> 1. "Controlling and Predicting Crystal Shapes: The Case of Urea" M. Salvalaglio, T. Vetter, M. Mazzotti and M. Parrinello Angew. Chem. Int. Ed., 52, 13369 – 13372 (2013), DOI: 10.1002/anie.201304562 2. "Well-Tempered Metadynamics Converges Asymptotically" J. F. Dama, M. Parrinello and G. A. Voith Phys. Rev. Lett., 112, 240602 (2014), DOI: 10.1103/PhysRevLett.112.240602 3. "Prion protein $\beta 2$-$\alpha 2$ loop conformational landscape" E. Caldarulo, A. Barducci, K. Wüthrich and Michele Parrinello PNAS, 114 (36), 9617-9622 (2017), DOI: 10.1073/pnas.1712155114 4. "Silicon liquid structure and crystal nucleation from ab-initio deep Metadynamics" L. Bonati and M. Parrinello, J. Phys. Rev. Lett., 121 (26), 265701 (2018) DOI: 10.1103/PhysRevLett.121.265701, arXiv: physics.comp-ph 1809.11088v2 (2018) 5. "Microscopic description of acid-base equilibrium" E. Grifoni, G. M. Piccini and M. Parrinello PNAS, 116 (10), 4054-4057 (2019), DOI: 10.1073/pnas.1819771116 arXiv.org/pdf/1904.02004 6. "Kinetics of aqueous media reactions via ab initio enhanced molecular dynamics: the case of urea decomposition" D. Polino and M. Parrinello J. Phys. Chem. B, 123 (31), 6851-6856 (2019), DOI: 10.1021/acs.jpcc.9b05271 arXiv.org/abs/1905.09009 7. "Rethinking Metadynamics: from Bias Potentials to Probability Distributions" M. Invernizzi and M. Parrinello J. Phys. Chem. Lett. 11 (7), 2731-2736 (2020), DOI: 10.1021/acs.jpclett.0c00497 arXiv: physics.comp-ph 1909.07250 8. "Ab initio phase diagram and nucleation of gallium" H. Niu, L. Bonati, P. M. Piaggi and M. Parrinello Nature Communications, 11, 2654 (2020), DOI: 10.1038/s41467-020-16372-9 (Open acc.) 9. "Unified Approach to Enhanced Sampling" M. Invernizzi, P. M. Piaggi and M. Parrinello Phys. Rev X, 10, 041034 (2020), DOI:10.1103/PhysRevX.10.041034 ArXiv: 2007.03055-physics (2020) 10. "Liquid-Liquid Critical Point in Phosphorus" Manyi Yang, Tarak Kamakar, Michele Parrinello arXiv:2104.14688 (2021) DOI: 10.1103/PhysRevLett.127.080603
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According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Date and signature

