

# Michele Ceotto

## Curriculum Vitae

### PERSONAL DATA

Place and date of birth Conegliano, 2<sup>nd</sup> of March, 1972  
Citizenship Italian  
Email address [michele.ceotto@unimi.it](mailto:michele.ceotto@unimi.it), <http://users.unimi.it/ceotto>

### POSITION

since 2015 ERC Consolidator Group Leader for the project SEMICOMPLEX at the Department of Chemistry, Università degli Studi di Milano (Italy)  
since 2015 Associate Professor, Department of Chemistry, Università degli Studi di Milano (Italy) (“*chiamata diretta per chiara fama*”)  
2006-2015 Assistant Professor, Department of Chemistry, Università degli Studi di Milano (Italy)

### EDUCATION

2005-2006 Postdoctoral Fellow, “Center for Biophysical Modeling and Simulation”, Prof. G.A. Voth’s group, Dept. of Chemistry, University of Utah, Salt Lake City (USA)  
2005 PhD in Chemistry, University of California at Berkeley (USA); advisor Prof. W. H. Miller, thesis’s title: “Semiclassical and Quantum Instanton approximations for thermal rate constants of chemical reactions”  
2000 Laurea (M.S.) in Physics (110/110), Università degli Studi di Roma "La Sapienza" (Italy)  
1999 Laurea (M.S.) in Chemistry (110/110 cum laude), advisor Prof. F.A. Gianturco, Università degli Studi di Roma "La Sapienza" (Italy)  
1991 Diploma, Liceo Scientifico “Guglielmo Marconi”, Conegliano (Treviso, Italy)

### FELLOWSHIPS AND AWARDS

2015 European Research Council (ERC): ERC Consolidator Grant 2014  
2000-2005 University of California at Berkeley (USA): International student fellowship for graduate studies in Theoretical & Computational Physical Chemistry  
2000 Fellowship by the “Consiglio Nazionale delle Ricerche” (CNR) for studies outside Italy  
2000 European Union Training and Mobility for Researchers (TMR) Fellowship at the Consejo Superior de las Investigaciones Científicas (CSIC) and “Istituto de Matematicas y Fisica Fundamental” (IMAFF), Prof.s Garcia-Vela and Delgado-Barrio, Madrid (Spain)  
1998 Visiting student Fellowship at Department of Chemistry, University of Warwick (UK)  
1992-1999 Tax-free application at the University of Rome “La Sapienza” for outstanding GPA at each academic year  
1992-1999 Italian National Federation “Cavalieri del Lavoro” Fellowship: about 20 grants each year nationwide (over the entire Italian University student population). The grant includes full board, lodging, and additional academic courses during all undergraduate studies

### GRANTS

2015-2020 ERC Consolidator Grant 2014, 1 899 973 € for the project SEMICOMPLEX, “*Divide and Conquer ab initio Semiclassical Molecular Dynamics for Spectroscopic Calculations of Complex Systems*”, Principal Investigator (PI)  
2014-2015 LISA, Regione Lombardia, 63 000 € (1 800 000 CPU hrs), “*Quantum mechanical investigation of active TiO<sub>2</sub>*”, PI  
2014-2015 SMART MAT Lab, Department of Chemistry, CARIPO foundation, Università degli Studi di Milano, Regione Lombardia, 970 740 €, “*An Interdisciplinary Laboratory for smart materials synthesis*”, Participant  
2014 Department of Chemistry, Università degli Studi di Milano, 6 800 €, “*Ab initio semiclassical Molecular Dynamics*”, PI  
2013-2014 CINECA (Italian Supercomputing Center), Università degli Studi di Milano, 9000€ (300000)

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2013-2014	CPU hrs), “ <i>Titania film nanotexturing for outdoor cultural heritage preservation</i> ”, PI LISA, Regione Lombardia, 20 000 € (600 000 CPU hrs), “ <i>New titania materials for environmental remediation</i> ”, PI
2011	NVIDIA, 8 000 € (Hardware), “ <i>GPU accelerated semiclassical molecular dynamics</i> ”, co-PI
2010	Department of Physics, Università degli Studi di Milano, 61 000 € (Ph.D. Fellowship), co-PI
2009-2013	“Cinque per Mille”, Università degli Studi di Milano, 40 000 €, “ <i>Monitoring and environmental remediation of organic and inorganic pollutants from waste waters: a theoretical and experimental approach</i> ”, co-PI
2009-2011	Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR), PRIN, 117 000 €, “ <i>DFT calculations of confined nano-systems</i> ”, Participant
2009-2014	PUR, Università degli Studi di Milano, 22 000 €, “ <i>Nano and Micro structured multifunctional materials for energy storage and conversion and environmental remediation</i> ”, Participant
2007-2009	MIUR (PRIN), 121 000 €, “ <i>Quantum-mechanical calculations for gas phase molecular spectra</i> ”, Participant

## MAJOR COLLABORATIONS

- A. Aspuru-Guzik (Harvard University, USA): ab initio calculations for semiclassical dynamics
- W.L. Hase and Y. Zhuang (Texas Tech University, USA): hessian integrators for semiclassical molecular dynamics
- D. Tamascelli (Università degli Studi di Milano, Italy): GPU accelerated semiclassical molecular dynamics
- L. Lo Presti (Università degli Studi di Milano, Italy): plane wave (VASP, QE) and atom-centered (CRYSTAL) DFT calculations of doped TiO<sub>2</sub>
- S. Ardizzone and L. Falciola (Università degli Studi di Milano, Italy): characterization and photocatalysis of doped titania for photocatalytic environmental remediation
- G. Cappelletti and P. Fermo (Università degli Studi di Milano, Italy): characterization of nano-textured titania films for outdoor cultural heritage protection
- J. Schrier (Haverford College, USA): helium isotope enrichment by resonant tunneling through nanoporous graphene bilayers
- F. Grossman (Technische Universität Dresden, Germany): hybrid semiclassical propagators
- M. Benaglia (Università degli Studi di Milano, Italy): beyond the Curtin-Hammett principle

## SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

*Present:* R. Conte (Postdoctoral Fellow), A. N. Mahmoud (Postdoctoral Fellow), Huaqing Li (Postdoctoral Fellow), M. Micciarelli (Postdoctoral Fellow), C. D. Aieta (PhD), G. Di Liberto (PhD), F. Gabas (PhD), F. Moriggi (Undergraduate); D. Balestra (Undergraduate); A. Rognoni (Undergraduate), L. Parma (Undergraduate); G. Buccella (Undergraduate)

*Past:*

2016 R. Bellani	Master thesis in Chemistry
2015 G. Bruno	Bachelor Thesis in Chemistry
2015 G. Di Liberto	Bachelor and Master Thesis in Chemistry (now PhD student in my group)
2013 S. Mandrà	PhD Thesis in Physics (now postdoctoral fellow at Harvard University, USA)
2013 F. S. Dambrosio	Bachelor Thesis in Chemistry (now student in Physics)
2007 D. dell'Angelo	Master Thesis in Chemistry (now postdoctoral fellow at Univ. South Carolina, USA)
2008 S. Valleau	Bachelor and Master Thesis in Chemistry (now PhD student at Harvard Univ., USA)
2010 D. Lotti	Bachelor and Master Thesis in Chemistry (now PhD student at Univ. of Zurich, CH)
2010 M. Azzola	Bachelor and Master Thesis in Chemistry (now Physics student)
2010 C. Aieta	Bachelor and Master Thesis in Chemistry (now PhD student in my group)
2012 R. Conte	Postdoctoral Fellow (now postdoctoral fellow at Emory University, USA)

## TEACHING ACTIVITIES

University of California at Berkeley, USA

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Fall 2004-05	Physical Chemistry Laboratory: Statistics and Thermodynamics	(undergrad. div.)
Fall 2002	Biophysical Chemistry: Principles of Thermodynamics	(upper division)
Fall 2001	Quantum Mechanics: Principles of Quantum Mechanics	(graduate division)
Fall 2000	Principles of Chemistry	(undergraduate division)

## Università degli Studi di Milano, Italy

Since 2011	Spectroscopy (Part I): Fundamental Theory for Spectroscopic Techniques	(und. div.)
Spring 2009-10	Principles of Physical Chemistry: Atoms and Molecules	(undergraduate div.)
Since 2016	Lab. of Physical Chemistry A: Software for ab initio Calculations	(master div.)
Since 2007	Theoretical Chemistry: Classical and Quantum Molecular Dynamics	(master div.)
Since 2006	Lab. Physical Chemistry I: Statistical Theory of Experimental Data Treatment	(und. div.)

## ORGANIZATION OF SCIENTIFIC MEETINGS

6-10 June 2016: CECAM Workshop: "Different routes to quantum molecular dynamics", Lausanne, Switzerland; <https://www.cecama.org/workshop-1319.html>

8 April 2016: NOBEL LECTURE Prof. Martin Karplus (Harvard University) 2013 Nobel Prize in Chemistry

17-21 June 2013: CECAM Workshop: "Many-dimensional quantum dynamics with (non)classical trajectories", Lausanne, Switzerland; <http://www.cecama.org/workshop-0-884.html>

## EU-MIRATED RESPONSABILITIES

2012-present	Member of the European Grid Infrastructure (EGI, <a href="http://www.egi.eu">www.egi.eu</a> ) CompChem (FP7 funds)
2012-present	EChem Test (a pan-European Chemistry Test): local organizer and contact point

## INSTITUTIONAL RESPONSABILITIES

2016	Ph.D Committee member, Université Pierre et Marie Curie, Institut de Nanoscience de Paris
2015	Ph.D. degree Committee member, Ecole Polytechnique Fédérale de Lausanne (EPFL), CH
2014	Master degree Committee member, Ecole Polytechnique Fédérale de Lausanne (EPFL), CH
2012-present	Teaching Committee of Chemistry and Industrial Chemistry (Commissione Didattica)
2012-present	Committee for High Schools Orientation (Commissione Orientamento)
2012-present	Committee for internal evaluation and planning (Comm. Valutazione e Programmazione)
2012-present	"Collegio" of Doctoral School of Chemistry
2010-present	Committee of Doctoral School of Chemical Science (Commissione Dottorato)
2010	Master degree Committee member, Ecole Polytechnique Fédérale de Lausanne (EPFL), CH

## EXTERNAL EXAMINER

2016	Y. Bronstein, Ph.D. exam, for the Department of Physics at UPMC (Paris, FR)
2015	M. Wehrle, Ph.D. exam, for the Department of Chemistry at EPFL (Lausanne, CH)
2014	J. Rohrbach, Master exam, for the Department of Chemistry at EPFL (Lausanne, CH)
2010	M. Wehrle, Master exam, for the Department of Chemistry at EPFL (Lausanne, CH)

## COMMISSIONS OF TRUST

2013	Frontiers in Chemistry
2012	Dataset Papers in Atomic and Molecular Physics

## REFeree FOR:

*Institutions:* Ministero dell' Istruzione, dell' Università e della Ricerca: "Futuro in Ricerca" (FIRB); "Scientific Independence of young Researchers" (SIR); PRIN; VQR.

*Journals:* J. Chem. Phys.; J. Chem. Theory and Compu.; J. Phys. Chem.; J. of Material Chemistry; Mol. Phys.; International Journal of Quantum Chemistry; Chemical Sciences; RCS Adv.; Dalton Transactions; Phys. Chem. Chem. Phys.; Chemistry of Materials, Curr. Appl. Phys., Res. Chem. Intermed.

2016 33 papers referred;

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2015	22 papers refereed;
2014	24 papers refereed;
2013	15 papers refereed;
2012	5 papers referred.

## MEMBERSHIP OF SCIENTIFIC SOCIETIES

2006-Present	Italian Chemical Society
2002-Present	American Chemical Society

## PUBLICATIONS

1. D. Meroni\*, L. Lo Presti\*, G. Di Liberto, **M. Ceotto\***, R. G. Acres, K. C. Prince, R. Bellani, G. Soliveri, and S. Ardizzone, "A Close Look at the Structure of the TiO<sub>2</sub>-APTES Interface in Hybrid Nanomaterials and Its Degradation Pathway: An Experimental and Theoretical Study", *J. Phys. Chem C*, **121**, 430-440 (2017);
2. G. Di Liberto, **M. Ceotto\***, "The importance of the pre-exponential factor in semiclassical molecular dynamics", *J. Chem. Phys.* **145**, 144107 (2016);
3. C. Aieta, G. Di Liberto, F. Gabas, R. Conte, and **M. Ceotto\***, "Theoretical chemistry and sustainable growth: A trip on board of a nano-engine conducted by Martin Karplus", *Nuova Energia* **2**, (2016).
4. C. Aieta, F. Gabas, **M. Ceotto\***, "An Efficient Computational Approach for the Calculation of the Vibrational Density of States", *J. Phys. Chem. A* **120** (27), 4853-4862 (2016);
5. M. Buchholz, F. Grossmann, **M. Ceotto\***, "Mixed semiclassical initial value representation time-averaging propagator for spectroscopic calculations", *J. Chem Phys.*, **144**, 094102 (2016);
6. M. Orlandi, **M. Ceotto\***, M. Benaglia\*, "Kinetics versus thermodynamics in the proline catalyzed aldol reaction", *Chemical Science* **7** (8), 5421-5427 (2016);
7. L. Rimoldi, C. Ambrosi, G. Di Liberto, L. Lo Presti, **M. Ceotto**, C. Oliva, D. Meroni, S. Cappelli, G. Cappelletti, G. Soliveri, S. Ardizzone, "Impregnation versus Bulk Synthesis: How the Synthetic Route Affects the Photocatalytic Efficiency of Nb/Ta:N Codoped TiO<sub>2</sub> Nanomaterials", *J. Phys. Chem C*, **119**, 24104-24115 (2015);
8. F. Spadavecchia\*, **M. Ceotto**, L. Lo Presti, C. D. Aieta, I. Biraghi, D. Meroni, S. Ardizzone, G. Cappelletti, "Second Generation Nitrogen Doped Titania Nanoparticles: A Comprehensive Electronic and Microstructural Picture", *Chi. J. of Chemistry*, **32** (12), 1195-1293 (2014);
9. C. Marchiori, G. Di Liberto, G. Soliveri, L. Loconte, L. Lo Presti\*, D. Meroni\*, **M. Ceotto**, C. Oliva, S. Cappelli, G. Cappelletti, C. Aieta, S. Ardizzone, "Unraveling the Cooperative Mechanism of Visible-light Absorption in Bulk N, Nb Codoped TiO<sub>2</sub> Powders of Nanomaterials", *J. Phys. Chem C*, **118**, 24152-24164 (2014);
10. S. Mandrà, J. Schrier, **M. Ceotto\***, "Helium Isotope Enrichment by Resonant Tunneling Through Nanoporous Graphene Bilayers" *J. Phys. Chem. A*, **118** (33), 6457-6465 (2014);
11. D. Tamascelli, F.S. Dambrosio, R. Conte, **M. Ceotto\***, "Graphics Processing Units Accelerated Semiclassical Initial Value Representation Molecular Dynamics", *J. Chem Phys.*, **140**, 174109 (2014);
12. L. Lo Presti\*, **M. Ceotto**, F. Spadavecchia, G. Cappelletti, D. Meroni, R.A. Acres, S. Ardizzone, "Role of the Nitrogen Source in Determining Structure and Morphology of N-Doped Nanocrystalline TiO<sub>2</sub>", *J. Phys. Chem C*, **118**, 4797-4807 (2014);
13. **M. Ceotto\***, C. Manuali, A. Manfredi, "Massive implementation of the European Chemistry Test at University of Milan", *Virtual Innovation, Research, Teaching & Learning Communities*. - ISSN 2279-8773. - 4 (2013);
14. R. Conte, A. Aspuru-Guzik, **M. Ceotto\***, "Reproducing Deep Tunneling Splittings, Resonances, and Quantum Frequencies in Vibrational Spectra From a Handful of Direct Ab Initio Semiclassical Trajectories", *J. Phys. Chem. Lett.*, **4**, 3407-3412 (2013);
15. S. Mandrà, S. Valleau, **M. Ceotto\***, "Deep Nuclear Resonant Tunneling Thermal Rate Constant Calculations", *Int. J. of Quantum Chemistry*, **113** (12), 1722-1734 (2013);
16. **M. Ceotto\***, Y. Zhuang, W.L. Hase, "Accelerated direct semiclassical molecular dynamics using a compact finite difference Hessian scheme", *J. Chem. Phys.* **138**, 054116 (2013);

17. F. Spadavecchia\*, S. Ardizzone, G. Cappelletti, L. Falciola, **M. Ceotto**, D. Lotti, “Investigation and optimization of photocurrent transient measurements on nano-TiO<sub>2</sub>”, *J. of Applied Electrochem.* **43** (2), 217-225 (2013);
18. Y. Zhuang\*, M. R. Siebert, W.L. Hase, K.G. Kay, **M. Ceotto\***, “Evaluating the Accuracy of Hessian Approximations for Direct Dynamics Simulations” *J. Chem. Theory and Computation*, **9** (1), 54-64 (2013);
19. G. Cappelletti\*, S. Ardizzone, D. Meroni, G. Soliveri, **M. Ceotto**, C. Biaggi, M. Benaglia, L. Raimondi, “Wettability of bare and fluorinated silanes: A combined approach based on surface free energy evaluations and dipole moment calculations”, *J. of Colloid and Interface Science* **389**, 284-291 (2013);
20. F. Spadavecchia\*, G. Cappelletti, S. Ardizzone, **M. Ceotto**, M. S. Azzola, L. Lo Presti, G. Cerrato, L. Falciola, “Role of Pr on the Semiconductor Properties of Nanotitania. An Experimental and First-Principles Investigation”, *J. Phys. Chem C* **116** (43), 23083-23093 (2012)
21. **M. Ceotto\***, L. Lo Presti\*, G. Cappelletti, D. Meroni, F. Spadavecchia, R. Zecca, M. Leoni, P. Scardi, S. Ardizzone, “About the Nitrogen Location in Nanocrystalline N-Doped TiO<sub>2</sub>: Combined DFT and EXAFS Approach” *J. Chem. Phys. C* **116** (2), 1764-1771, (2012)
22. **M. Ceotto\***, “Vibration-assisted tunneling: a semiclassical instanton approach”, *Mol. Phys.* **110** (9-19), Special Issue 547-559 (2011)
23. **M. Ceotto\***, G.F. Tantardini, A. Aspuru-Guzik, “Fighting the curse of dimensionality in first-principles semiclassical calculations: Non-local reference states for large number of dimensions”, *J. Chem. Phys.* **135** (21), 214108 (2011)
24. D. Meroni\*, S. Ardizzone, G. Cappelletti, **M. Ceotto**, M. Ratti, R. Annunziata, M. Benaglia, L. Raimondi, “Interplay between Chemistry and Texture in Hydrophobic TiO<sub>2</sub> Hybrids”, *J. Chem. Phys. C* **115** (38), 18649-18658 (2011);
25. **M. Ceotto\***, S. Valteau, G.F. Tantardini, A. Aspuru-Guzik, “First principles semiclassical calculations of vibrational eigenfunctions”, *J. Chem. Phys.* **134** (23), 234103 (2011);
26. F. Spadavecchia\*, G. Cappelletti, S. Ardizzone, **M. Ceotto**, L. Falciola, “Electronic Structure of Pure and N-Doped TiO<sub>2</sub> Nanocrystals by Electrochemical Experiments and First Principles Calculations”, *J. Phys. Chem. C* **155** (14), 6381-6391 (2011);
27. D. Meroni\*, S. Ardizzone, G. Cappelletti, C. Oliva, **M. Ceotto**, D. Poelman, H. Poelman, “Photocatalytic removal of ethanol and acetaldehyde by N-promoted TiO<sub>2</sub> films: The role of the different nitrogen sources”, *Catalysis Today* **161** (1), 169-174 (2011);
28. **M. Ceotto\***, D. Dell'Angelo, G.F. Tantardini, “Multiple coherent states semiclassical initial value representation spectra calculations of lateral interactions for CO on Cu(100)”, *J. Chem. Phys.* **133** (5), 054701 (2010);
29. **M. Ceotto\***, S. Atahan, G. F. Tantardini, A. Aspuru-Guzik, “Multiple coherent states for first-principles semiclassical initial values representation molecular dynamics”, *J. Chem. Phys.* **130**, 234113 (2009)
30. **M. Ceotto\***, S. Atahan, S. Shim, G. F. Tantardini, A. Aspuru-Guzik, “First-principles semiclassical initial value representation molecular dynamics”, *Phys. Chem. Chem. Phys.* **11**, 3861 (2009)
31. **M. Ceotto\***, G. F. Tantardini, S. Atahan, A. Aspuru-Guzik, “First-principles implementation of semiclassical initial value representation molecular dynamics”, *Multidimensional Quantum Mechanics with Trajectories*, pg.s-8-16, Ed. D. Shalashilin and M. Miranda (CCP6, University of Leeds, 2008) ISBN 978-0-9545289-8-0
32. **M. Ceotto**, G. S. Ayton, G. A. Voth\*, “Accelerated Superposition State Molecular Dynamics for Condensed Phase Systems”, *J. Chem. Theory Comput.* **4**, 560 (2008).
33. M. Ceotto “Semiclassical and Quantum Instanton approximations for thermal rate constants of chemical reactions”, Ph.D. Dissertation Thesis (337 pages), edit by the “University of California at Berkeley” (copyright © 2005 by Michele Ceotto).
34. **M. Ceotto**, S. Yang, W. H. Miller\*, “Quantum reaction rate from higher derivatives of the thermal flux-flux autocorrelation function at time zero” *J. Chem. Phys.* **122**, 044109 (2005).
35. **M. Ceotto**, W. H. Miller\*, “Test of the quantum instanton approximation for thermal rate constants for some collinear reactions” *J. Chem. Phys.* **120**, 6356 (2004).
36. W. H. Miller\*, Y. Zhao, **M. Ceotto**, S. Yang, “Quantum instanton approximation for thermal rate constants of chemical reactions” *J. Chem. Phys.* **119**, 1329 (2003).
37. **M. Ceotto**, A. García-Vela\*, “A reduced-dimensionality quantum model which incorporates the full-

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- dimensional energy of the system. Application to the vibrational predissociation of  $\text{Cl}_2\text{-Ne}_2$ ” *J. Chem. Phys.* **115**, 2146 (2001).
38. **M. Ceotto**, F. A. Gianturco\*, “Internal coordinate couplings and symmetry properties: the search of a conical seam in the protonated oxygen” *J. Phys. Chem. A* **105**, 5197 (2001).
39. **M. Ceotto**, F. A. Gianturco\*, “Gas-phase proton affinity of ozone: a computational test of the experimental mechanism” *J. Mol. Struct.-Theochem* **543**, 115 (2001).
40. **M. Ceotto**, F. A. Gianturco\*, “Charge-transfer effects in the gas-phase protonation of ozone: locating the conical intersections” *J. Chem. Phys.* **112**, 5820 (2000) 13.
41. **M. Ceotto**, F. A. Gianturco, D. M. Hirst\*, “Protonated ozone: structures, energetics and nonadiabatic effects” *J. Phys. Chem. A* **103**, 9984 (1999) 48.

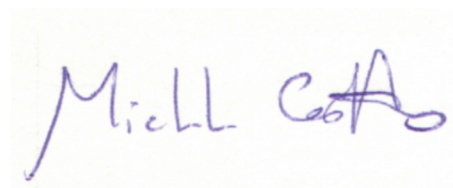
## ORAL PRESENTATIONS

- 2015-Dic. CNR Rome, National Congress of the Italian Chemistry Society, Theoretical and Computational Chemistry division “*A mixed SC-IVR and Thawed Gaussian Propagator*”
- 2014-Sept. Italian National Chemical Society Meeting (Università della Calabria, Arcavacata di Rende, Italy) “*A General Purpose Implementations of Semiclassical Molecular Dynamics for CPU and GPU hardware*”
- 2014-Sept. Italian National Chemical Society Meeting (Università della Calabria, Arcavacata di Rende, Italy) “*Doped nano-titania: theoretical insight into structure-property relationships*”
- 2014-Feb, EPFL Department Seminar (Lausanne, CH) “*A General Purpose Implementations of Semiclassical Molecular Dynamics for CPU and GPU hardware*”, (invited)
- 2014-Jan. Regione Lombardia LISA meeting (Milano, Italy), “*Progettazione di Nuovi Materiali per l'Abbattimento di Inquinanti. Come proteggere i nostri monumenti*”, (invited)
- 2014-Jan. Max-Planck-Institut für Physik Komplexer Systeme Department Seminar (Dresden, Germany ), “*Ab initio Semiclassical molecular dynamics for CPU and GPU hardware*”, (invited)
- 2014-Jan. INFN and Consortium GARR Training Workshop on Application Porting (Roma, Italy), “*Introduction to Quantum Espresso for semiconductors applications*”, (invited)
- 2012-Jul. NSF/PIRE Workshop (Pisa, Italy), *First Principles Semiclassical Molecular Dynamics*, (invited)
- 2013-Jun. CECAM Workshop “Many-dimensional quantum dynamics with (non)classical trajectories” (Lausanne, Switzerland), “*Ab initio direct semiclassical molecular dynamics*”, (invited)
- 2013-Jun. Italian National Physical Chemical Society Meeting (Alessandria, Italy), “*Doped Titania Nanocrystals explained by Experimental and DFT Characterizations*”
- 2010-Oct. The 61st Annual Meeting of the International Society of Electrochemistry (Nice, France), “*Doped versus undoped titania nanocrystals: theoretical bottom-up approach vs. experimental flatband potential studies*”
- 2010-Jul. Istituto Eni Donegani “Transport in Complex Quantum Systems”, Novara, Italy “*Resonances in Complex Quantum Systems from a Semiclassical Dynamics Perspective*”, (invited)
- 2010-Feb. EPFL Department Seminar (Lausanne, CH) “*Multiple Coherent States for first-principles Semiclassical Molecular Dynamics*”, (invited)
- 2008-Sept. CCP6 2008 Workshop Multidimensional Quantum Mechanics with Trajectories School of Chemistry, University of Leeds (UK), “*First-principles Semiclassical Molecular Dynamics*”, (invited)
- 2008-Aug. “Quantum Dynamics Concepts: From Path Integrals to Semiclassical” Workshop and Seminar, Max-Planck-Institut für Physik Komplexer Systeme (Dresden, Germany), “*Semiclassical Initial Value Representation Implementations*”, (invited)
- 2004-Dic. Dipartimento di Chimica dell'Università di Perugia (Italy), “*How to calculate thermal rate constants for chemical reactions*”, (invited)
- 2001-Oct. “Graduate Research Conferente” (GRC), Berkeley (USA); “*How to Mimic Tunnelling from Asymptotic Conditions*”

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- 2000-Mar. Spanish Physical Chemistry Society meeting at Consejo Superior de las Investigaciones Cientificas (CSIC), Madrid (Spain), "*Conical Intersections*", (invited)
- 1999-Sept. Italian Physical Chemical Society Meeting (Firenze, Italy), "*Conical Intersections effects in the gas phase molecular protonation*"
- 1999-Jun. Italian Chemical Society Meeting about "Structure, Properties, Reactivity and Dynamics", (Varenna, Italy), "*Conical Intersections effects in the gas phase molecular protonation*"

Milano, January 10<sup>th</sup>, 2017



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