

## CURRICULUM VITAE

Sonia Coriani, Professor, PhD

H-index (WoS): 29

Researcher IDs: [www.researcherid.com/rid/B-6424-2011](http://www.researcherid.com/rid/B-6424-2011); [orcid.org/0000-0002-4487-897X](http://orcid.org/0000-0002-4487-897X)**Scientific focus area**

Quantum chemistry, computational spectroscopy, molecular properties, electronic structure theory, response theory, nonlinear optical effects, photonics. Both method development and applications.

**Education & Qualifications**

- 2017** Interviewed for a Villum Investigators Grant, The VELUX Foundations, Denmark
- 2014** Italian National Qualification as Full Professor in Physical Chemistry
- 2013** Interviewed for a ERC-Consolidator grant
- 2010** Norwegian Qualification as Adjunct Professor in Chemistry
- 2000** PhD degree in Theoretical Chemistry, Faculty of Science, Aarhus University, Denmark
- 1993** Master Degree *cum laude* in Chemistry, University of Modena, Italy

**Employment**

- Since 02/2017** Professor in Physical Chemistry, DTU Chemistry, Technical University of Denmark
- 2014-2017** Associate Prof., Dep.nt Chemical and Pharmaceutical Sciences, University of Trieste, Italy
- 2015-2016** AIAS-COFUND senior fellow, Aarhus Institute of Advanced Studies, Aarhus University, DK
- 1999-2014** Tenured Research Scientist, Department of Chemical Sciences, University of Trieste, Italy
- 2010-2012** IEF-Marie Curie Fellow (associate prof.), Department of Chemistry, Aarhus University
- 2007-2011** Adjunct Associate Professor (20%), Centre for Theoretical and Computational Chemistry, Dept. of Chemistry, University of Oslo, Norway (5 years)
- Career breaks:** 19/05/2006–18/10/2006 and 23/09/2003–27/02/2004, both due to maternity leave

**Research management (since 2010)**

- 2018-2021** DTU node coordinator & Principal Investigator (PI), Marie-Sklodowska-Curie Innovative Training Network *COSINE*, 3.75 million € (580164€ to DTU node);
- 2013-2020** PI, Grant CHIM02-RICERCA from the University of Trieste, 106 k€.
- 2015-2016** PI, AIAS-COFUND grant, Aarhus University, Denmark, 110 k€
- 2011-2013** Co-PI (with P. Decleva), Italian PRIN2009 research network, Funding to Trieste 35000 €.
- 2012-2013** Proposer. EuroMagNET II: *Challenging light-matter interactions in strong magnetic fields: a combined experimental and theoretical investigation of magneto-electric effects*. Receiving institution: Laboratoire National des Champs Magnetique Intenses - LNCMI, Toulouse, France.
- 2011** Co-proposer, EuroMagNET II: *Magneto-chiral birefringence and dichroism effects: can theory and experiment be brought to agreement*. Receiving institution Laboratoire National des Champs Magnetique Intenses - LNCMI, Toulouse, France.
- 2010-2012** PI. FP7 Marie Curie Intra-European Fellowship for Career Development, *Coupled-cluster methods for theoretical x-ray spectroscopies*, Dep.nt of Chemistry, Aarhus University, 265000 €.

**Scientific Production & Impact of own research**

**115** peer-reviewed articles, **5** book chapters. Co-author of the Dalton and LSDalton quantum chemistry programs. *From Web Of Science Core Collection*: **H-index: 29**; total citations: **2962 (2505** without self citations); citing articles: **1953 (1852** without self-citations). Average citations per item: **25.18**. The most highly cited paper has received **442** citations. *From Google Scholar*: **H-index: 35 (22** since 2012); **i-10 index: 88 (53** since 2012), total citations **4377 (2398** since 2012)

### Present and past Supervision of Bachelor, Master, PhD Students and Postdoctoral Fellows

**From 2017:** 1 PhD student (M. Lopez) + 1 postdoc (R. Faber) + 2 PhD students starting in 2018;  
**2002-2016:** 1 postdoc (J. Cukras), 2 PhDs (D. Marchesan, A. Baranowska), 3 B.Sc. (J. Carbone, P. Posocco, M. Pianca), 1 M. Sc. (T. Fransson)

### Current Membership of Scientific Networks

**2016-2018** CMST COST Action CM1405 *Molecules in Motion (MOLIM)*

**2014-2018** COST Action MP1306 *Modern Tools for Spectroscopy on Advanced Materials (EUSpec)*

**2013-2017** COST Action XUV/X-ray light and fast ions for ultrafast chemistry (XLIC)

### Current Main International Collaborations

- Prof. Henrik Koch, Norwegian University of Science and Technology, Trondheim, Norway
- Prof. Jacob Kongsted, University of Southern Denmark, Denmark
- Drs. Fabrizio Santoro and Roberto Improta, Italian National Research Council
- Prof. Juha Vaara and Dr. Petr Stepanek, University of Oulu, Finland
- Prof. Piero Decleva, University of Trieste, Italy
- Prof. Geert Rikken, Laboratoire National des Champs Magnétiques Intenses, Toulouse, France
- Prof. Michael Odelius, Stockholm University, Sweden
- Assistant Prof. Lan Cheng, Johns Hopkins University, Baltimore, Maryland, US
- Prof. Stefano Stranges, Drs. Marcello Coreno, M. de Simone, Elettra Sincrotrone SpA, Trieste, Italy

### Other scientific activities and expert assignments

- Invited speaker at WATOC2017 (Aug 2017) and 16-ICQC 2018 (June 2018) conferences
- 2 plenary, 38 invited talks, 20 contributed talks/oral communications at International Conferences since 1995; 15 invited seminars at various European universities
- Member of Editorial Board of *Theoretical Chemical Accounts*, Springer; *Molecular Physics*, Taylor and Francis; *Cogent Chemistry*, cogent-oa
- More than 20 short-term scientific visits at International research institutions in Europe
- 3 International Conferences organized:
  - 1) *Molecular Properties and Computational Spectroscopy: From Esoteric Effects to Novel Probing Tools*, Pisa, Italy, 10-12/04/2017 (106 participants), with C. Cappelli and F. Santoro;
  - 2) *Quantum Chemistry beyond the Arctic Circle. Promoting Female Excellence in Theoretical and Computational Chemistry*, Sommarøy, Norway, 23-26/6/2010 (75 participants), with M. Pecul;
  - 3) *XIV European Seminar on Computational Methods Quantum Chemistry (ESCMQC)*, Isola d'Elba, Italy, 2-6/10/2008 - (85 participants), with A. Rizzo (chair), C. Cappelli, B. Mennucci, S. Monti
- Regular peer reviewer for *J. Chem. Phys.*; *J. Chem. Theory Comput.*; *Mol. Phys.*; *Phys. Chem. Chem. Phys.*; *J. Phys. Chem.*; *ACS Photonics*; *Int. J. Quantum Chem.*; *Chem. Phys. Lett.*; *J. Comp. Chem.*; *Theor. Chem. Accounts*; *J. Phys. Chem. Lett.*
- Opponent/Evaluator at 4 international PhD defences (2008, 2012, 2016, 2017);
- Expert evaluator for temporary and permanent positions in Denmark, Italy, Norway and Sweden;
- Regular project reviewer for FNRS, ERA-Chemistry, the Italian Ministry of Research

### Institutional and Administrative Responsibilities

**Since Sept. 2017** IT Security Representative for DTU Chemistry

**2015** Departmental committee for the internationalization of the M.Sc. in Chemistry, Univ. of Trieste

**2014-2016** Advisory Committee, Interdepartmental Centre for Computational Sciences, Univ. Trieste

**2004-2008** Member of Steering Board, Dep. of Chemical Sciences, University of Trieste

**2001-2007** Erasmus/Socrates Exchange Coordinator (Trieste-Santiago de Compostela, Spain)

**2005-2006** Implementation committee member, educational outreach project "Scientific Degrees"

**2004-2010** Responsible for the activity "ChemShow-Chemistry wonders", University of Trieste