

Personal Information

Name **Andrea Pietropolli Charmet**
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E-mail jacpnike@unive.it
Nationality Italian
Date (and place) of birth 07 May 1969 – Padova (PD), Italy.
Gender Male

Work Experience

Dates Since 2005
Occupation or position held, name of employer Assistant Professor (Ricercatore T.I.) in Physical Chemistry (CHIM/02) at the Department of Molecular Sciences and Nanosystems - Ca' Foscari University of Venice - Via Torino 155, 30172 – Venezia (Ve), Italy.
Main research activities and responsibilities Current research interests are mainly focused on molecular spectroscopy, computational methods, quantum-mechanical investigations of molecular properties, hybrid QM/MM studies of biological systems and surfaces, characterization of molecular clusters and complexes, and *ab initio* thermochemistry.
Supervisor and co-supervisor of many dissertations.
Formal Teaching Courses (at University) Since 2005 he was appointed to teach several courses on the topics of Physical Chemistry (for example on physical chemistry and laboratory, molecular spectroscopy, and data acquisition and processing).
Dates From 2001 to 2005
Occupation or position held, name of employer Technical Employee at the Department of Physical Chemistry, Ca' Foscari University of Venice.
Main activities and responsibilities Experimental build-up of spectroscopic experiments.

National Scientific Habilitation (ASN)

Habilitation for Associate Professor (03/A2 "MODELLI E METODOLOGIE PER LE SCIENZE CHIMICHE").

Education and Training

Year 2002
Title of qualification awarded Ph.D in Chemistry (title obtained from the University of Ferrara - Italy)
Year 1996

<p>Title of qualification awarded</p> <p>Research Projects and Grants Funded/Approved as Principal Investigator</p>	<p>Master's degree in Chemistry (5 years' degree, obtained from the University of Padova - Italy)</p> <p><u>Principal Investigator</u> (PI) in the CINECA-SCAI Italian project CINEMA (Grant no. HP10C2QE6F), 2019 – 2020.</p> <p><u>Principal Investigator</u> (PI) in the CINECA-SCAI Italian project ACCLAIM (Grant no. HP10C1RAPR), 2018 – 2019.</p> <p>Awarded by the Italian FFABR 2017 grant.</p> <p><u>Principal Investigator</u> (PI) in the CINECA-SCAI Italian project HYDRA (Grant no. HP10CTVO3E), 2017 – 2018.</p> <p><u>Principal Investigator</u> (PI) in the CINECA-SCAI Italian project COWS (Grant no. HP10C8R8EI), 2016 – 2017.</p> <p><u>Principal Investigator</u> (PI) in the CINECA-SCAI Italian project PRONE (Grant no. HP10CYDKK8), 2016.</p> <p><u>Principal Investigator</u> (PI) in the SOLEIL International Project 20160022 (PRC1: Diluted Matter).</p> <p><u>Principal Investigator</u> (PI) in the CINECA-SCAI Italian project SMASHES (Grant HP10CJ2KUM), 2014.</p> <p><u>Principal Investigator</u> (PI) in the CINECA-SCAI Italian project CASPER (Grant no. HP10C292PO), 2013.</p>
<p>Participation to other Research Projects</p>	<p><u>Participant</u> in the Italian Project of Relevant National Interest (PRIN) "<i>Spettroscopia e Tecniche computazionali per la ricerca Astrofisica, atmosferica e Radioastronomica</i>" (started in 2014, duration 36 months).</p> <p><u>Participant</u> in the Italian Project of Relevant National Interest (PRIN) "<i>Spettroscopia infrarossa a media e ad alta risoluzione di molecole di importanza atmosferica e astrofisica</i>" (started in 2011, duration 24 months).</p> <p><u>Participant</u> in the Italian Project of Relevant National Interest (PRIN) "<i>Trasferimenti di energia in vibrazioni molecolari</i>" (started in 2007, duration 24 months).</p> <p><u>Participant</u> in the Italian Project of Relevant National Interest (PRIN) "<i>Trasferimento di energia e di carica a livello molecolare</i>" (started in 2005, duration 24 months).</p>
<p>Research abroad</p>	<p>Max-Planck-Institut für extraterrestrische Physik (Germany); INRS (Canada); P.I. at SOLEIL (France).</p>
<p>Publications in International Journals</p>	<p>Author/co-author of <u>more than 60 articles</u> (records present in Scopus and/or ISI databases) published in international peer-reviewed journals (like <i>Journal of Chemical Physics</i>, <i>Journal of Physical Chemistry A</i>, <i>Journal of Physical Organic Chemistry</i>, <i>ChemPhysChem</i>, <i>Applied Surface Science</i>, <i>PhysChemChemPhys</i>, <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i>, <i>Journal of Molecular Spectroscopy</i>, <i>Molecular Physics</i>, <i>Spectrochimica Acta</i>, <i>Chemical Physics Letters</i>, <i>A&A</i>).</p>
<p>Contributions to International and National Conferences</p>	<p><u>More than 70 contributions</u> (as posters and/or orals) to many international and national conferences.</p>

Academic/Institutional**Committees**

Currently he is:

- member of the Teaching board of the degree course "Science and Technology of Bio- and Nanomaterials" [CM12] at the Department of Molecular Sciences and Nanosystems;
- member of the Erasmus Committee at the Department of Molecular Sciences and Nanosystems;
- member of the Joint Teaching Affairs Committee ("Commissione Paritetica Docenti-Studenti") at the Department of Molecular Sciences and Nanosystems.

Membership

Italian Chemical Society (Società Chimica Italiana).

Referee/Reviewer

Referee for many international journals published by Royal Society of Chemistry, Wiley, and Elsevier.
Reviewer for the Josef Pliva Prize.

Skills and Competences

Mother tongue

Italian

Other language

English (self-declaration of B2 level, spoken and written).

Organisational Skills and Competences

Competences in the coordination and management developed during many computational and experimental research projects

Research and Technical
Competences/Skills

High-resolution molecular spectroscopy: experienced user of Tuneable Diode Laser (TDL) spectrometers, Quantum Cascade Laser (QCL) spectrometers, Fourier Transform spectrometers.

Vibrational and ro-vibrational analysis of infrared spectra.

Analysis based on medium- and low-resolution Fourier transform infrared spectroscopy; experienced user of FTIR, ATR, and DRIFT equipments.

Quantum-mechanical modelling, hybrid QM/MM methods, simulation based on molecular dynamic, modelling of molecular complexes, *ab initio* kinetic and thermochemistry.

Computer Skills and Competences

Experience as PI (Principal Investigator) in the management of several computational projects carried out on the HPC Center CINECA SCAI-ISCRA (see <http://www.hpc.cineca.it/services/iscra>).

Experienced user of different *ab initio* quantum-mechanical programs (MOLPRO, Gaussian, Orca, GAMESS, NWCHEM, Spartan) and of molecular dynamic packages (AMBER, Tinker).

Experienced user of computer softwares for data acquisition, filtering and analysis (LabVIEW, MATLAB, Origin, The Unscrambler).

I authorize the handling of my personal information under 'decreto legislativo n°196 del 30 giugno 2003 'codice in materia di protezione dei dati personali'. Everything stated in the present CV is true under 'articoli 46 e 47 del D.P.R. 445/2000'.

Venice, 24 October 2019

Signature

Andrea Pietropoli