

Curriculum Vitae of Tasinato Nicola

Personal information

Surname(s) / First name(s)

TASINATO, NICOLA

Position from December 2020

Associate Professor of Environmental Chemistry at Scuola Normale Superiore

Education

Dates

January 2007 – December 2009

Title of qualification awarded

Ph.D. in Chemical Sciences with mention of “Doctor Europaeus”

Title of the thesis

Infrared spectroscopy of atmospheric and astrophysical relevant molecules: spectral analysis, line parameter retrievals and study of collisional decay processes

Name and type of organization providing education and training

Università Ca' Foscari Venezia.

Dates

October 2003 – December 2005

Title of qualification awarded

Master's degree in Chemistry and Environmental Compatibility (110/110 summa cum laude) at Università Ca' Foscari Venezia

Dates

October 2000 – October 2003

Title of qualification awarded

Bachelor's degree in Chemistry (110/110 summa cum laude) at Università Ca' Foscari Venezia

Dates

September 1995 – July 2000

Title of qualification awarded

Diploma of Computer science expert (90/100) at Istituto Tecnico Industriale Statale C. Zuccante

Professional experiences

November 2017 - November 2020

Researcher (RTDb) in Environmental Chemistry at Scuola Normale Superiore.

April 2016 - November 2017

Researcher (RTDa) at Scuola Normale Superiore for the research program **Space-Time Multiscale Approaches for the Study of Processes Relevant for Life- and Material-Sciences**.

June 2014 - March 2016

Post doc position "Infrared Spectroscopy and computational models of gaseous compounds with atmospheric and astrophysical relevance" at the Department of Molecular Sciences and Nanosystems of Università Ca' Foscari Venezia.

June 2012 - May 2014

Post doc position " Medium and high resolution infrared spectroscopy of atmospheric and astrophysical relevant molecules " at the Department of Molecular Sciences and Nanosystems of University Ca' Foscari Venice.

September 2013

Visiting researcher at the **Mulliken center for theoretical chemistry** (University of Bonn) in the group of Prof. Stefan Grimme. The research activity dealt with the study of van der Waals and hydrogen-bonded dimers by means of the dispersion corrected DFT-D3 scheme.

January 2010 - April 2012

Post doc position "Study of line profiles and cross sections of atmospheric and astrophysical relevant molecules" at the Faculty of Science of University Ca' Foscari Venice.

February – May 2009

Visiting researcher at the **Strathclyde University** of Glasgow in the QCL spectroscopy group of Profs. Geoffrey Duxbury and Nigel Langford.

March – July 2008

January – October 2006

Developer of software for high-resolution infrared spectroscopy.

Schools	
January 2016	SMART (Space-Time Multiscale Approaches for Research and Technology) Winter School as teacher of laboratory exercitations. Pisa, January 25 – 29 January 2016.
Teaching Activity	
Academic Years 2019 – 2021	Supervisor of Gianluca Rinaldi's PhD thesis.
Academic Years 2019 – 2021	Supervisor of Carmen Baiano's PhD thesis. Second supervisor of Marta Martino's PhD thesis.
Academic Years 2018 – 2021	Second supervisor of Jacopo Lupi's PhD thesis. Second supervisor of Sandra Monica Vieira Pinto's PhD thesis.
Academic Years 2016 – 2021	Computational Spectroscopy at Scuola Normale Superiore.
Academic Year 2012 – 2014	Second supervisor of a number of master's and bachelor's degree theses.
Academic Year 2011 – 2012	Exercitations of Mathematics for the degree course in Chemistry and sustainable technologies at Università Ca' Foscari Venezia. Second supervisor of a number of master's and bachelor's degree theses
Academic Year 2010 – 2011	Institutions of Mathematics and Exercitations for degree courses of Chemistry and Industrial Chemistry at Università Ca' Foscari Venezia.
Academic Year 2006 – 2010	Exercitations of Mathematics for Chemistry, Industrial Chemistry, Material Sciences and Environmental Sciences at Università Ca' Foscari Venezia.
Experience as Principal Investigator (P.I.)	
July 2018 - July 2020	P.I. of project QC-Astro ("Quantum Chemical strategies for Astrochemistry: From Spectroscopy to Reactivity") at Scuola Normale Superiore (€ 46'600).
January 2017 - December 2019	P.I. of project COSMO ("COmbined experimental and computational Spectroscopic MOdeling for astrochemical applications") at Scuola Normale Superiore (€ 20'000).
January 2012 - July 2013	P.I. of project SCOSSA ("Computational strategies for spectroscopy") at University Ca' Foscari Venezia.
April 2013 - October 2015	P.I. of projects; CASIAS ("Computer-Assisted Spectroscopic Investigations of Atmospheric and astrophysical Species"), C-MOSPAC ("Computational MOdeling of Spectroscopic Properties of Atmospheric Compounds"), NIB3 ("Non-covalent Interactions in Biomolecular Building Blocks: applications to Uracil-Vinyl Chloride adducts, Adsorption of Glycolaldehyde and L-Asparagine in solution") at CINECA Supercomputer Center.
Awards	
	2020: Roetti Prize from the Division of Computational and Theoretical Chemistry of the Italian Chemical Society.
	2011: Ca' Foscari Award as best young researcher of 2010. This award has been used to devise and manage the project "Strategie COnputazionali per la SpettroScopIa" (SCOSSA).
	2010: Josef Plíva Prize at The 21 st international conference on high resolution molecular spectroscopy, Poznań, September 7 – 11, 2010. Motivation: for the outstanding contribution of the poster "The Vinyl Fluoride Infrared Spectrum in the Atmospheric Window Region Around 8.7 μm ".
Current Services	<ul style="list-style-type: none"> Reviewer for a several international peer reviewed journals. Member of the PhD board in "Methods and Models for Molecular Sciences" at SNS. Member of the PhD board in Astrochemistry SNS. Member of the joint commission students-professors at SNS. SNS Representative in the Work Package 4 of the EELISA project (https://eelisa.eu/). Member of "Società Chimica Italiana".

Highlights

- The paper published on The Journal of Chemical Physics, **132**, p. 164301, 2010 has been selected for publication on the Virtual Journal of Ultrafast Science in May 2010.
- The spectroscopic parameters determined in the paper published on the Journal of Quantitative Spectroscopy and Radiative Transfer, **130**, p. 233, 2013 have been included in the HITRAN 2016 database.
- Cover page of Molecular Physics, **112**, 2384-2396 (2014).
- The paper “Unveiling the Sulfur–Sulfur Bridge: Accurate Structural and Energetic Characterization of a Homochalcogen Intermolecular Bond” has been evaluated as a Very Important Paper (VIP) on Angewandte Chemie International Edition.
- *h*-index: 19.

Organizing Committee

- IV Congresso Nazionale della DCTC della SCI, 3 – 5 October 2016, Pisa (<http://dctc16.sns.it/>).
- Workshop DREAMS@Anacapri, 20 – 22 April 2017, Anacapri (http://smart.sns.it/dreams_anacapri/).
- Colloquium Spectroscopicum Internationale XL, 11 – 16 June 2017, Pisa (<http://www.csi-conference.org/>).
- ERC AdG – Barone DREAMS: final meeting 29 November –02 December 2018, Pisa (<http://smart.sns.it/erc2017/>).
- Astro-Winter Modeling, 15-16 February 2018, Bologna (<https://eventi.unibo.it/astro-wm18>).
- 6th International Conference on Vibrational Optical Activity, 9-13 September 2018, Brescia (<https://www.voa6.org/>).
- Young researchers meet molecular spectroscopy, 4 – 5 April 2019, Pisa (<https://www.sns.it/it/evento/young-researchers-meet-molecular-spectroscopy>)

Publications and Congress communications

68 papers published on international peer-reviewed journals and about **70 contributions** to national and international conferences.