Matteo BRUSCHI M.Sc. in Chemistry

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♥ Lungadige Matteotti 14, 37126 Verona (VR), Italy

i Born 26 July 1995, Negrar (VR), Italy





EDUCATION

23 Apr 2020 02 Oct 2017	M.Sc. IN CHEMISTRY Dipartimento di Scienze Chimiche, Università degli Studi di Padova, Padova, Italy <i>Thesis</i> : "Stochastic Models of Disorder in Excitonic Systems: Localization, Decoherence and Optical Response" Supervisor: Prof. Barbara Fresch Final grade: 110/110 cum Laude
	Theoretical Chemistry Exciton dynamics Anderson localization Haken-Strobl model
18 Dec 2018 20 Aug 2018	ERASMUS+ STUDIES Department of Chemistry, NTNU, Trondheim, Norway Courses from the Master's Degree Programme in Applied Theoretical Chemistry
28 Sep 2017 29 Sep 2014	B.Sc. IN CHEMISTRY Dipartimento di Scienze Chimiche, Università degli Studi di Padova, Padova, Italy <i>Thesis</i> : "In Silico Oxidation of Bioinspired Organodichalcogenides of Glutathione Peroxidase: an ASA-EDA Approach" Supervisor: Prof. Laura Orian Final grade: 110/110



PROFESSIONAL EXPERIENCES

Today	RESEARCH FELLOW Dipartimento di Scienze Chimiche, Università degli Studi di Padova, Padova, Italy
01 Jun 2020	Project: "Exciton Dynamics in Quantum Dots Solids for the Design of Logic Processing at the Nanoscale"
	Supervisor: Prof. Barbara Fresch
	Funding: COPAC (H2020 FETOPEN-1-2016-2017-766563)
31 Jul 2019	TUTOR FOR SCHOOL OF SCIENCE Università degli Studi di Padova, Padova, Italy
01 Mar 2019	Courses: Organic Chemistry 1 and Analytical Chemistry 1
17 Aug 2018	Scholarsнір Institut de Química Computacional i Catàlisi, Universitat de Girona, Girona, Spain
20 Jul 2018	<i>Project</i> : "Bioinspired in Silico Oxidation of Organomonochalcogenides by H ₂ O ₂ "
	Supervisor: Prof. Marcel Swart
	Funding: HPC-EUROPA3 (H2020 INFRAIA-2016-1-730897)

SCHOOLS AND SEMINARS

28 – 29 Apr 2020	Training course – "High Performance Molecular Dynamics", CINECA, Online Lessons, Italy
26 - 29 Nov 2019	Training course – "Introduction to Fortran for Scientific Computing", CINECA, Bologna, Italy
01 - 03 Oct 2019	Training course – "Introduction to Python Programming", CINECA, Rome, Italy
15 – 17 Jul 2019	Summer School in History and Philosophy of Science – "Frontiere della Conoscenza: Big Data nelle Scienze
	Fisiche, Sociali, Umanistiche e della Vita", CISFIS, Padova, Italy

OTHER EXPERIENCES

27 Sep 2019	Staff Member – "European Researchers' Night - Venetonight", Padova, Italy
12 Feb 2019	Speaker – "Viaggio nella Tavola Periodica", Padova, Italy
29 Sep 2018	Staff Member – European Researchers' Night - Venetonight, Padova, Italy
23 Sep 2017	Staff Member – "NEMEC - Non è magia, è chimica", Padova, Italy
19 Sep 2015	Staff Member – "NEMEC - Non è magia, è chimica", Padova, Italy

Computational Chemistry | Catalysis | Chalcogens | GPx |



LANGUAGES

Operative Systems
Programming
Scientific Software
Chemistry Software
Linux, MacOS, Windows
Python, Fortran 90, Bash
Matlab, Mathematica
Gaussian, ADF, Avogadro

Office Suite, ETFX

Matlab, Mathematica
Gaussian ADE Avogadro

66 Publications

Text Editors

[1] M. Bortoli, M. Bruschi, M. Swart, L. Orian Sequential Oxidations of Phenylchalcogenides by H₂O₂: "Insights in the Redox Behavior of Selenium from a DFT Analysis" *New J. Chem.* **44**, 6724-6731 (2020).

[2] M. Bortoli, F. Zaccaria, M. Dalla Tiezza, M. Bruschi, C. Fonseca Guerra, F. M. Bickelhaupt, L. Orian "Oxidation of Organic Diselenides and Ditellurides by H₂O₂ for Bioinspired Catalyst Design" *Phys. Chem. Chem. Phys.* **20**, 20874-20885 (2018).

Autorizzo il trattamento dei miei dati personali presenti nel cv ai sensi dell'art. 13 del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e dell'art. 13 del GDPR (Regolamento UE 2016/679).

Padova, 17 June 2020

MATTEO BRUSCHI

Mattes Dughi