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

💼 EXPERIENCE

Present **01 Jun 2020**	RESEARCH FELLOW | Dipartimento di Scienze Chimiche, Università degli Studi di Padova, Padova, Italy ❯ 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 **01 Mar 2019**	TEACHING ASSISTANT | Università degli Studi di Padova, Padova, Italy ❯ Courses: Organic Chemistry 1 and Analytical Chemistry 1
18 Dec 2018 **20 Aug 2018**	ERASMUS+ STUDIES | Department of Chemistry, NTNU, Trondheim, Norway ❯ Courses from Master's Degree Programme in Applied Theoretical Chemistry
17 Aug 2018 **20 Jul 2018**	SCHOLARSHIP | Institut de Química Computacional i Catàlisi, Universitat de Girona, Girona, Spain ❯ Project: "Bioinspired in Silico Oxidation of Organomonochalcogenides by H_2O_2" ❯ Supervisor: Prof. Marcel Swart ❯ Funding: HPC-EUROPA3 (H2020 INFRAIA-2016-1-730897)

🎓 EDUCATION

23 Apr 2020 **02 Oct 2017**	M.SC. IN CHEMISTRY | Dipartimento di Scienze Chimiche, Università degli Studi di Padova, Padova, Italy ❯ Thesis: "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
28 Sep 2017 **29 Sep 2014**	B.SC. IN CHEMISTRY | Dipartimento di Scienze Chimiche, Università degli Studi di Padova, Padova, Italy ❯ Thesis: "In Silico Oxidation of Bioinspired Organodichalcogenides of Glutathione Peroxidase: an ASA-EDA Approach" ❯ Supervisor: Prof. Laura Orian ❯ Final grade: **110/110** Computational Chemistry · Catalysis · Chalcogens · GPx

👥 SCHOOLS AND SEMINARS

20 – 31 Jul 2020	**Summer School** – "Qiskit Global Summer School", IBM, Online Session
28 – 29 Apr 2020	**Training Course** – "High Performance Molecular Dynamics", CINECA, Online Session
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

👥 VOLUNTARY ACTIVITIES

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

☰ Skills

Operative Systems	Linux, MacOS, Windows
Programming	Python, Fortran 90, Bash
Scientific Software	Matlab, Mathematica
Chemistry Software	Gaussian, ADF, Avogadro
Text Editors	Office Suite, LaTeX

🌐 Languages

Italian	● ● ● ● ●	Native
English	● ● ● ● ○	Fluent

66 Publications

[1] M. Bortoli, M. Bruschi, M. Swart, L. Orian "Sequential Oxidations of Phenylchalcogenides by H_2O_2: 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 H_2O_2 for Bioinspired Catalyst Design" *Phys. Chem. Chem. Phys.* **20**, 20874-20885 (2018).

Verona, 01 August 2020

Matteo Bruschi