

## SIMONE CASADIO

### Contact Information

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**Address:** Via Bellenghi 2, 48018, Faenza (RA), Italy  
**Gender:** Male  
**Date of Birth:** April 3, 1993 (Faenza, Italy)



### Education

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**2020 - current**     **PhD candidate in Molecular Sciences – 36<sup>th</sup> cycle**  
**Università degli Studi di Padova (Italy)**  
**Curriculum:** *Chemical Sciences*  
Synthesis and Characterization of multifunctional perovskite-based materials for solar conversion

**2016-2019**     **Master in Industrial Chemistry - 110 out of 110**  
**School of Science- Alma Mater Studiorum Università di Bologna (Italy)**  
Lectures included organic chemistry, inorganic c., polymer c. physical c., industrial c., and chemical engineering.

Research internship – 1250 hours (University Job Placement in collaboration with istec-CNR, Faenza, Italy):

- **Research Field:** Inorganic and Materials Chemistry
- **Project:** Development and optimization of Fully Organic Dye-based Fibre shaped Grätzel cells.
- **Research Group:** Materials and Processing for Energetics
- **Supervisors:** Dr. Alessandra Sanson (*Istec-CNR*), Dr. Nicola Sangiorgi (*Istec-CNR*), Prof. Cristina Femoni (*University of Bologna*)
- **Thesis Title:** Development and Optimization of Fibre-Shaped Dye-Sensitized Solar Cells employing an innovative Fully Organic Sensitizer.

**2012-2016**     **Bachelor of Science in Industrial Chemistry - 110 out of 110, cum laude**  
**School of Science- Alma Mater Studiorum Università di Bologna (Italy)**  
**Curriculum:** *Traditional and Innovative Materials*

Research internship – 200 hours (University Job Placement in collaboration with Unigrà S.r.l., Conselice, Italy):

- **Research Field:** Organic Chemistry
- **Project:** Influence of Chemical Interesterification on the chemical-physical properties of binary vegetables fat blends

- Supervisors: Dr. Massimo Fusari (*Unigrà S.r.l.*), Dr. Lucia Gramigna (*Unigrà S.r.l.*), Prof. Daniele Nanni (*University of Bologna*).

**2007-2012**      **High School** – 100 out of 100

**Liceo Scientifico E.Torricelli, Faenza (Italy)**

**Curriculum**: Scientific Studies

### ***Extracurricular Research***

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**April – July 2016**      **Manchester Metropolitan University (MMU)** – post graduate research internship (*Erasmus + Internship program*)

**Faculty of Science and Engineering, School of Science and the Environment, Division of Chemistry and Environmental Science, Manchester (United Kingdom)**

- Research Field: detection of neurotransmitters with Molecularly Imprinted Polymers (MIPs)
- Supervisor: Dr. Marloes Peeters

**March – July 2018**      **University College London (UCL)** – Research internship (*Erasmus + program*)

**Department of Chemistry, London (United Kingdom)**

- Research Field: Fabrication of Copper-based Porous Conductive Electrodes for Supercapacitors
- Research Group: Clean Materials Technology Group
- Supervisor: Prof. Jawwad A. Darr

### ***Professional Experiences***

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**January – October 2020**      **Istec-CNR** – Research Fellowship

Research Field: Development of BCZY-GDC-based ceramic layers with engineered porosity *via* freeze-casting and additive-manufacturing technique (3D-printing) for applications in hydrogen separation.

Research Group: Materials and Processing for Energetics

### ***Publications***

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“Development of a Novel Flexible Polymer-Based Biosensor Platform for the Thermal Detection of Noradrenaline in Aqueous Solutions” S. Casadio, J.W. Lowdon, K. Betlem, J. T. Ueta, C.W. Foster, T.J. Cleij, B. van Grinsven, O.B. Sutcliffe, C.E. Banks, M. Peeters, *Chem. Eng. J* **2017**  
DOI: 10.1016/j.cej.2017.01.050.

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#### **SPOKEN LANGUAGES**

- **ITALIAN:** mother tongue
- **INGLESE:** fluent – European Level C1

#### **TECHNICAL SKILLS**

- Flash chromatography, crystallization, fractioned distillation, vacuum line, one and two-dimensional NMR analysis, glove box, GC, HPLC, DSC, TGA, IR, UV-Vis and basic organic and inorganic chemistry techniques
- Able to carry out and independent bibliographic search to get new research ideas
- Good command of ChemDraw and Microsoft Office tools

#### **PERSONAL SKILLS**

- Good with team working, good organization skills, used to present research reports.
- Self-adaptability, creativity and curiosity.