



## Edoardo Mariani

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### ABOUT ME

M.Sc. in Materials Science looking for new challenges. Highly interested in many fields of Science and Technology. A quick learner that possesses an analytical mindset.

### WORK EXPERIENCE

#### Materials Science Intern

*Illumina, Inc.* [ 08/08/2022 – 21/07/2023 ]

City: Cambridge

Country: United Kingdom

Part of the Materials and Applied Surface Science research group.

- Worked on Nanoparticles and hydrogels functionalisation and characterisation, and Assay development
- Design of experiments
- Data analysis and presentation of the results
- DLS, TFF, TRPS, dialysis, UV-Vis spectroscopy, Click-Chemistry reactions, utilisation of flow cell, microfluidic systems, and oligonucleotides
- Worked with colleagues across different sites around the world

#### Bike Laboratory Technician

*Decathlon Italia S. r. l.* [ 07/04/2021 – 16/05/2022 ]

City: Basiano (Mi)

Country: Italy

- Repair and maintenance of bicycles
- Contact with clients

### EDUCATION AND TRAINING

#### M.Sc. in Materials Science

*Università degli studi Milano-Bicocca* [ 01/10/2018 – 08/03/2021 ]

Final grade: 110/110 cum Laude

Thesis: Investigation of cathodic materials in DS-PEC for photoreduction of water

- Advanced chemistry and physics applied to different classes of materials
- Lab courses on resonance energy transfer, batteries, corrosion
- Hands on experience on: UV-Vis spectroscopy, Cyclic voltammetry (CV), Linear Sweep Voltammetry (LSV), Differential Pulse Voltammetry (DPV), Chronoamperometry (CA), Spin Coating, Synthesis of inorganic materials, XRD, Time-Resolved fluorescence spectroscopy, FRET analysis, electrodes fabrication

#### Bachelor degree in Materials Engineering and Nanotechnology

*Politecnico di Milano* [ 10/2015 – 09/2018 ]

Final grade: 101/110

Thesis: Morphological (stereo-microscopy) and vibrational (Raman spectroscopy) properties of radiated snow

- Courses on chemistry, physics, math, engineering, quantum mechanics, and properties of materials
- Hands on experience on: Raman spectroscopy, Stereomicroscopy, standard chemical techniques

#### Scientific High School diploma

*Istituto statale d'istruzione superiore Leonardo da Vinci* [ 08/2010 – 07/2015 ]

Address: Via Leonardo da Vinci, 20093 Cologno Monzese (Mi) (Italy)

Field(s) of study: Natural sciences, mathematics and statistics: *Biology, Chemistry, Physics, Mathematics*

Consapevole che, ai sensi dell'art. 76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi: sono punite ai sensi del codice penale e delle leggi speciali vigenti in materia, dichiara sotto la propria responsabilità: che quanto dichiarato nel seguente curriculum vitae et studiorum comprensivo delle informazioni sulla produzione scientifica corrisponde a verità.

14/4/2024 Mariani Edoardo

Final grade: 88/100

Thesis: Fracking, new energetic frontier or global menace?

## LANGUAGE SKILLS

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Mother tongue(s): **Italian**

Other language(s):

**English**

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

**German**

LISTENING A2 READING A2 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

**French**

LISTENING B1 READING B1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## CERTIFICATIONS

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### Certificate of Advanced English (CAE)

The knowledge of the English language was certified in April 2021 when I passed the Cambridge Certificate of Advanced English exam (CAE) with grade A (corresponding to a C2 level).

## HONOURS AND AWARDS

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### Sustainability and Energy Award

University of Milan-Bicocca

Winner of the 2019-2020 MSc Materials Science award for people who have completed a thesis in the field of sustainability and energy

## VOLUNTEERING

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### Outdoor animator

[ Carugate (Mi) ]

The experience was carried out during the summers of 2011, 2012 and 2013 in the "Oratorio don Bosco" of Carugate (Mi). The activity consisted mainly in the preparation of activities for elementary-school children.

## HOBBIES AND INTERESTS

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### Sports

I was part of a track and field team for six years, but I had to stop running competitively due to injuries. Nowadays, I regularly run and ride my bike.

I also like cross-country skiing, hiking, bikepacking and camping.

### Music and art

I regularly play the piano, instrument I studied for eight years at the "Scuola Civica di Musica" of Carugate. I also enjoy drawing.

### Nature and travels

I have always loved Nature, trees and animals. Whenever I can, I like walking through woodlands, and in the mountains, looking for wild animals.

## DIGITAL SKILLS

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Microsoft Office / GoogleChrome / Windows / CAD - Fusion 360 / Python - basic knowledge

## DRIVING LICENCE

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Driving Licence: B

Consapevole che, ai sensi dell'art. 76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono punite ai sensi del Codice penale e delle leggi speciali vigenti in materia, dichiaro sotto la propria responsabilità: che quanto dichiarato nel seguente curriculum vitae et studiorum comprende delle informazioni sulla produzione scienziativa onniparade e veritate.

14/4/2024 Honorem Edwanda