



Andrea Bertuzzi

Nationality: Italian **Date of birth:** 13/09/1999 **Gender:** Male

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Home: Via Gesso 79, 40069 Zola Predosa (BO) (Italy)

ABOUT ME

PhD student in Industrial Chemistry at University of Bologna and 3^o dan judoka.

WORK EXPERIENCE

PhD Student

University of Bologna [02/11/2023 – Current]

City: Bologna

Country: Italy

Development of catalytic materials for Methanol production and fuels from CO₂ valorization.

Trainee

Technical University of Denmark [30/01/2023 – 09/06/2023]

City: Kongens Lyngby

Country: Denmark

Erasmus traineeship for the development of my MSc thesis, about the characterization of carbon nano-structures grown on Fe - based catalyst for methane cracking.

Trainee

University of Bologna [20/09/2022 – 26/01/2023]

City: Bologna

Country: Italy

Laboratory scale Methane cracking (catalyst preparation, treatments and reaction).

Trainee

University of Bologna [02/2021 – 06/2021]

City: Bologna

Country: Italy

Development of the BSc thesis project, about 5-hydroxymethylfurfural (HMF) electrocatalytic reduction with Zinc deposited on Copper foams catalysts.

EDUCATION AND TRAINING

Master Degree in Industrial Chemistry

University of Bologna [09/2021 – 07/2023]

Country: Italy

Final grade: 110/110 Cum Laude

Bachelor Degree in Industrial Chemistry

University of Bologna

Country: Italy

Final grade: 110/110 Cum Laude

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING C1 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

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

DRIVING LICENCE

Driving Licence: B

HONOURS AND AWARDS

Scholarship winner

University of Bologna [2023]

Borse Di Studio Per La Preparazione All'estero Della Tesi Di Laurea Magistrale - Chimica Industriale, Low Carbon Technologies And Sustainable Chemistry.

Scholarship winner

University of Bologna [2022]

Bando Di Concorso Per L'assegnazione Di Incentivi Agli Iscritti A Corsi Di Studio Di Area Scientifico-tecnologica Per L'anno Accademico 2022/2023.

Scholarship winner

University of Bologna [2022]

Bando Per 4 Premi Di Studio Iscritti Per L'anno Accademico 2021-2022 Al I^o Anno Della Laurea Magistrale In Chimica Industriale Sui Fondi Delle Rendite Toso Montanari.

HOBBIES AND INTERESTS

Sport

3^o dan competitive judoka. Other than judo I usually do power lifting and weight lifting. I also enjoy playing other sports.

HARD SKILLS

Electron microscopy (TEM and SEM)

Trained on Tecnai T20 G2 S-TEM, transmission electron microscope (TEM).

Trained on Helios Hydra 5 PFIB, scanning electron microscope (SEM).

Image Processing

Knowledge in micrographs processing and data acquiring through DigitalMicrograph and ImageJ.

X-ray diffraction

Trained on PANalytical Empyrean v54 XRD.

Inorganic Crystal Structure Database (ICSD) consultancy and Crystal Maker softwares data analysis

Ability to consult ICSD reference structures, and knowledge in data analysis through Crystal Maker softwares (Crystal Maker - Crystal Diffract - Single Crystal).

Data analysis

Knowledge in data analysis and manipulation through OriginPro and Microsoft Excel.

Bologna, 04/11/2023



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