

# ERICA BERTOZZI

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Turin (IT)



## EDUCATION

### PhD in Civil and Environmental Engineering

Politecnico di Torino - PoliTO

01/02/2023 – present

Turin, Italy

### MSc in Environmental Chemistry

Università degli Studi di Torino - UniTO

12/2019 – 04/2022

Turin, Italy

- Thesis: "Development of photocatalytic membranes for polluted water treatment"

### Scuola di Studi Superiori Ferdinando Rossi

10/2016 – 06/2023

Turin, Italy

- Thesis: "EU Projects for water management in Africa: The VicInAqua case and the installation of Recirculating Aquaculture Systems (RAS) in Lake Victoria"

### Collegio Universitario Einaudi

2016 – 2022

Turin, Italy

- University Student House based on merit criteria. It provides courses and training aimed at improving hard and soft skills.

### BSc in Chemistry and Chemical Technologies

Università degli Studi di Torino - UniTO

10/2016 – 12/2019

Turin, Italy

- Thesis: "Photo-chemical transformation of molecules of environmental interest in ice"

## GRANTS AND AWARDS

### European Membrane Society

2023

Sorrento, Italy

- Winner of the Best Poster Award at the 3rd International Workshop on Membrane Distillation and Innovating Membrane Operations in Desalination and Water Reuse (MD-Sorrento202) with a work titled "Concentration and recovery of phycocyanin and caffeine from aqueous solutions with osmotically-assisted membrane distillation".

### Collegio Universitario Einaudi

2021

Turin, Italy

- Winner of 4 months scholarship in a competition based on academic merit for the assignment of contributions for the Erasmus+ projects.

### Scuola di Studi Superiori Ferdinando Rossi

2016

Turin, Italy

- The SSST granted me a 5 years full scholarship for the admission to its higher education programme.

## RESEARCH

### General Interests

- Environmental Chemistry
- Wastewater Treatment
- Membrane Processes
- Advanced Oxidation Processes
- Membrane Fabrication and Functionalization
- Wastewater Reuse
- Resource Recovery

### PhD Research

- Topic: Membrane processes for wastewater reuse and implementing circular economy practices in industry, with a specific focus on the recovery of valuable compounds and resources.

Supervised by Prof. Alberto Tiraferri (PoliTO).

### MSc Thesis Research

- Topic: Evaluation of the combined effect of nanofiltration and advanced oxidation processes for wastewater treatment. Specifically, the work involved synthesizing solar photoactive zinc-oxide materials and developing photocatalytic membranes to remove emerging contaminants within the nanofiltration step.

Supervised by Prof. Paola Calza (UniTO) and co-supervised by Vittorio Boffa (Aalborg University).

## PUBLICATIONS

- Bertozzi, E., Craveri, L., Malaguti, M., Ricceri, F., Carone, M., Riggio, V., and Tiraferri, A. (2024). Concentration of phycocyanin and coffee extracts in aqueous solutions with osmotically-assisted membrane distillation. Separation and Purification Technology, 330, 125360, <https://doi.org/10.1016/j.seppur.2023.125360>

## LANGUAGE SKILLS

- Italian – Native speaker
- English – IELTS C1
- French – A1

## WORK EXPERIENCE

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### Internship - Metropolitan City of Turin

📅 07/2022 - 10/2022 📍 Turin, Italy

- Internship for the Environmental Section of the Metropolitan City of Turin (Waste Management, Remediation and Safety of Production Sites Offices).

**Main Tasks:** environmental technician for the activities of the Technological Risk Plants Office and of the Cross-border Waste Transport Office.

### Digital Facilitator

📅 10/2020 - 12/2021 📍 Turin, Italy

- **Main Tasks:**
  - Online platforms and services facilitator for professors and students of the MSc in Environmental Chemistry;
  - Organization and promotion of public events for Chemistry Department;
  - Renovation and Management of the website of the MSc in Environmental Chemistry;
  - Content creator for the social media of the Department of Chemistry.

### UniTO Student Collaborations

📅 02/2020 - 07/2020 📍 Turin, Italy

- Reception and concierge for the Collegio Einaudi student house (Valentino section) in the evening (20:00 -02: 00) and on holidays.

### Teachers Assistant - Canadian Island English School

📅 06/2015 - 07/2015 📍 Florence, Italy

- **Main Task:** English Teachers assistant in Summer Camps daily activities for children aged 3-6 years.

## INTERNATIONAL EXPERIENCE

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### Traineeship

📅 2021 📍 Aalborg University, Denmark

- Four months Traineeship in the Department of Chemistry and Bioscience, Section for Chemical Science and Engineering in the framework of the Erasmus+ project.

### Cultural Exchange

📅 2015 📍 Bonn, Germany

- Cultural Exchange between the Liceo Classico Galileo e the Music Lyceum of Bonn.

### Au-pair

📅 2015 📍 Berlin, Germany

## OTHER ACTIVITIES

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### Representative - MSc

📅 2021-present 📍 Turin, Italy

- Students Representative for the MSc in Environmental Chemistry.

### Representative - Collegio Einaudi

📅 2020-2021 📍 Turin, Italy

- Students Representative for the Collegio Einaudi (Valentino Student House).

### Representative SSST

📅 2018-2021 📍 Turin, Italy

- Students Representative for the Scuola di Studi Superiori Ferdinando Rossi - Scientific Committee for the Class of Government and Natural Science.

### RIASISSU

📅 2018-present 📍 Italy

- Member of the Italian Network of Students of Schools and Institutes of Higher University Studies, an educational-cultural association that brings together students of Italian Schools and Institutes of Excellence Higher University Studies.

### Staff Member - Forum Ferdinando Rossi

📅 2017-2020 📍 Turin, Italy

- Member of the Organizing Committee of the Forum Ferdinando Rossi, an association that organizes events within the University, promoting the debate around current issues of our society.

<https://forumferdinandorossi.it/>

### Assistant

📅 2013-2014 📍 Florence, Italy

- Audio transcription activities in the writing of two books:

- "Ho sognato una strada: i diritti di tutti" di Kyenge-Lancisi

- "Nient'altro che la verità" di Caselli-Lancisi

### Volunteering

📅 2014-2016 📍 Florence, Italy

- Volunteer for the F.A.T.E. association F.A.T.E..