



# CARLA MAGGETTI

*PhD student in Chemical Engineering*

**KEYWORDS:** Adsorption, Ion-exchange, Wastewater Treatment, HPLC, Chromatography

## CONTACTS

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## PAPERS

- “Ammonium removal and recovery from municipal wastewater by ion exchange using a metakaolin K-based geopolymer”, *«Water Research»*, 2022, 225  
<https://dx.doi.org/10.1016/j.watres.2022.119203>
- “Ammonium recovery from municipal wastewater by ion exchange: Development and application of a procedure for sorbent selection”, *«Journal of Environmental Chemical Engineering»*, 2022, 10  
<https://dx.doi.org/10.1016/j.jece.2022.108829>

## LABORATORY SKILLS

- HPLC Chromatography
- Automatic continuous-flow adsorption column set-up and operation
- Isotherm and Kinetic tests
- Continuous Fluid Dynamic Test
- Management of hazardous substances
- Troubleshooting
- Leadership and Teamwork

## LANGUAGES

English	Advanced (C1)
Italian	Mother tongue

## E-SKILLS

Microsoft Office	Good knowledge
ChemOffice	Good knowledge
OriginLab	Basic knowledge
Aspen Plus	Basic knowledge
Chromeleon	Good knowledge

ECDL certificate (2012)  
Currently attending an Excel online course

## FORMATIVE EXPERIENCES

- Nov 2021 – to date **PHD STUDENT**  
Department of Civil, Chemical, Environmental and Materials Engineering – UNIBO
- Jul 2022 – to date “Removal of ammonium, phosphate and micropollutants from combined sewage overflows by adsorption and ion exchange processes”  
STOPUP (Horizon EU Programme)
  - Nov2021 – Jul2022 “Ammonium and phosphate recovery from municipal wastewater by adsorption and ion exchange processes”  
FIT4REUSE (Horizon 2020 Programme)
- Sep 2021 – to date **TEACHING TUTOR:**  
Department of Civil, Chemical, Environmental and Materials Engineering – UNIBO
- Environmental protection technologies
  - Environmental protection and human activities
- Sep 2021 – Oct 2021 **RESEARCH SCHOLARSHIP HOLDER**  
Department of Civil, Chemical, Environmental and Materials Engineering – UNIBO
- “Ammonium and phosphate recovery from wastewater by adsorption and ion exchange processes”
- Oct 2019 – Dec 2020 **RESEARCH INTERNSHIP**  
Department of Development and Management of Industrial Chemical Processes - UNIBO
- Thesis: ELECTROCHEMICAL OXIDATION OF GLUCOSE ON NI-FOAM ELECTRODES FOR THE SELECTIVE PRODUCTION OF GLUCONIC ACID AND GLUCARIC ACID  
Mentor: Prof. Patricia Benito Martin  
Voltammetry, Amperometry, SEM-EDS microscopy, XRD, Raman spectroscopy, HPLC
- Jan 2018 – May 2018 **RESEARCH INTERNSHIP**  
Department of Inorganic and Materials Chemistry – UCC
- Thesis: COCRYSTALS AND SALTS OF THE BIOACTIVE FLAVONOID NARINGENIN  
Mentors: Prof. Simon Lawrence (UCC), Prof. Maria Carmela Iapalucci (UNIBO)  
Powder-XRD, SC-XRD and ATR-FTIR, Cocrystals synthesis
- ## EDUCATION
- Jul 2021 **“FRANCO MAGELLI” AWARD**  
Award for best thesis in the field of chemical engineering
- 2018 – 2020 **MASTER’S DEGREE IN INDUSTRIAL CHEMISTRY**  
University of Bologna (UNIBO) – Italy  
Final grade: 110/110 *cum laude*
- Jan 2018 – May 2018 **EXCHANGE PROGRAMME ERASMUS+ SCHOLARSHIP**  
University College Cork (UCC) - Ireland  
Chosen modules: Analytical Chemistry, Forensic Science, Materials Chemistry.
- 2015 – 2018 **BACHELOR’S DEGREE IN INDUSTRIAL CHEMISTRY**  
University of Bologna (UNIBO) – Italy  
Final grade: 104/110