

## CURRICULUM VITAE Dr. Salvatore Barreca

- Born in Palermo (Italy) on 27 November 1986.

***Present position (from 28 October 2022):*** Assistant Professor (RTD-B) in the Department of Chemical Science, University of Catania. Research interests: Development and validation of analytical procedures for determination of pollutants and contaminations in different matrix: photochemistry of surface and atmospheric waters; heterogeneous photocatalysis and its applications in the environmental fields, application of advanced oxidation processes (Fenton reaction,) to water and soil remediation, chemical education.

As of January 2023, the Scopus database reported 36 entries under his name, with h-index = 18 and around 707 citations. He also authored one patent, one book chapter, and presented more than 13 congress communications.

Was co-supervisor of three M. Sc. thesis in the field of Analytical and Environmental Chemistry

From 09 January 2020 obtained National Scientific Qualification to becoming associate professor in Analytical Chemistry

### **Previous activities**

- Academic Year 2021 2022 Milano University Contract Professor for Analytical Chemistry
- Academic Year 2020 2021 Milano University Contract Professor for Analytical Chemistry
- December 2018 to 28 October 2022 Permanent Chemist at Environmental Regional Protection Agency for Lombardia Region
- May 2018 to December Assistant Professor (RTD-A) at Palermo University for Analytical Chemistry
- Novembre 2016 to May 2018 Chemist at Environmental Regional Protection Agency for Lombardia Region
- May 2015 to August 2016 Chemist at Environmental Regional Protection Agency for Lombardia Region
- January 2012 to December 2014. Ph. D. course in Chemistry, University of PALermo. Ph. D. thesis: "Development and optimization of procedures for the purification of extracts for analytical purposes and for contaminated matrix treatments. ", supervisor Prof. Santino Orecchio and Prof. Andrea Pace .
- February 2013 to July 2013 Assistant at Ecole Polytechnique Federale De Lausanne (Group Advanced Oxidation Processes coordinator Prof. Cesar Pulgarin)

From January 2013 to Decembre 2018 was component of Section for Euro Mediterranean Institute Of Science and Technologies (IEMEST)

- M. Sc. Degree in Chemistry obtained on 09 November 2011 at the University of Palermo. Mark: 110/110 with highest honors. Discussion of the thesis: "Development and application of new analytical method for the determination of PCB in sediment samples form Scoglitti", supervisor Prof. Santino Orecchio Prof. Antonio Mazzola

### ***Journal and Editorial activities***

- From 2022: Editorial board member, (ACCEDEMIC EDITOR) Journal of Chemistry Hindawi

Was Guest Editor for three special issue

Separations Special Issue "HPLC- a Key Tool in Analytical Chemistry"

Pollutants Special Issue "Analysis of Trace Pollutants in Complex Matrices"

Separations Special Issue "Hyphenated Separation Approaches"

Was reviewer for several journals:

Journal of photochemistry and photobiology B (ELSEVIER)

Water science and technology (IWA)

Desalination and water treatment (Taylor and Francis)

Chemical Engineering Journal (ELSEVIER)

Analytical and bioanalytical chemistry (SPRINGER)

Molecules (MDPI)

Separations (MDPI)

Food Chemistry (ELSEVIER)

Food (MDPI)

Water (MDPI)

Environmental Science and Pollution Research (ELSEVIER)

Nanomaterials (MDPI)

### ***Scientific Collaborations***

Dr. Salvatore Barreca since 2013 has collaborated with several national and international research groups.

University of Palermo Prof. S. Orecchio, Prof. A. Pace

(IEMEST) Via Emerico Amari 123, 90139 Palermo, Italy,

École Polytechnique Fédérale de Lausanne (EPFL) GPAO group Prof. Cesar Pulgarin, Institute of Environmental Engineering, Laboratory for Environmental Biotechnology, Swiss Federal Institute of Technology – École Polytechnique Fédérale de Lausanne (EPFL), CH-1015 Lausanne, Switzerland.

University of Palermo Prof. Antonio Mazzola Department of Earth Science and Sea (DISTEM)

Istituto per l'Ambiente Marino Costiero (CNR-IAMC), Messina, Italy,

University of Messina Università Prof. Concetta De Stefano

Istituto Zooprofilattico Sperimentale della Sicilia, Via Marinuzzi 6, Palermo, Italy

Istituto Superiore per la Protezione e la Ricerca Ambientale, Via V. Brancati 48, 00144 Rome, Italy

Department of Agricultural, Food and Forest Sciences, -Università degli Studi di Palermo, Viale delle Scienze 13, Building 4, 90128 Palermo, Italy

Department of Biological, Chemical and Pharmaceutical Sciences and Technologies, Laboratory of Chemistry, Università degli Studi di Palermo, Viale delle Scienze, Building 16, 90128 Palermo

Italy; -Research Consortium for the Development of Innovative Agro-Environmental Systems (CoRiSSIA), Via della Libertà 203, 90143 Palermo, Italy;

European Commission, Joint Research Centre (JRC), Via E. Fermi 2749, 21027 Ispra, VA, Italy

Department of Biology, Norwegian University of Science and Technology (NTNU), NO-7491 Trondheim, Norway

French National Institute for Industrial Environment and Risks (INERIS), UMR-I 02 SEBIO, 60550 Verneuil-en-Halatte, France

Department of Plant and Environmental Sciences, The Alexander Silberman Institute of Life Sciences, The Hebrew University of Jerusalem, Jerusalem 91904, Israel

RECETOX, Faculty of Science, Masaryk University, Kamenice 5, CZ62500 Brno, Czech Republic

Federal Institute of Hydrology, Am Mainzer Tor 1, D-56068 Koblenz, Germany

ISS-National Health Institute, Viale Regina Elena 299, 00161 Rome, Italy

Center for Environmental & Human Toxicology, Department of Physiological Sciences, College of Veterinary Medicine, University of Florida, Gainesville, FL, USA

Department Cell Toxicology, Helmholtz Centre for Environmental Research - UFZ, Permoserstraße 15, 04318 Leipzig, Germany

Metal Metabolism Group, Department of Nutritional Sciences, Faculty of Life Sciences and Medicine, King's College London, 150 Stamford St, London SE1 9NH, UK

Laboratório de Análises, Instituto Superior Tecnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal

Swiss Centre for Applied Ecotoxicology, Überlandstrasse 133, 8600 Dübendorf, Switzerland

School of Population Health & Environmental Sciences, Faculty of Life Sciences & Medicine, King's College London, 150 Stamford Street, London, UK

ARPA Lazio, Regional Agency for Environmental Protection, Via G. Saredo 52, 00173 Rome, Italy

ISPRA - Environmental Metrology Unit, Via di Castel Romano 100, 00128 Rome, Italy

institute for the Study of Anthropic Impacts and Sustainability in Marine Environment, National Research Council (CNR-IAS), Via de Marini 6, Genova 16149, Italy

ARPA Lombardia, Regional Agency for Environmental Protection, Via Rosellini 17, 20124 Milan, Italy

09/01/2023