

Dr Eleonora Bruzzi MChem

Current Role: Fellow, SMASH Postdoctoral Program

Univerza v Novi Gorici
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Duration of fellowship: 11 March 2026 to 10 March 2028

Primary Supervisor: Assistant Professor Iain Robert White, Laboratory for Environmental and Life Sciences, University of Nova Gorica

Secondary Supervisors: (i) Associate Professor Aleksander Sadikov, Artificial Intelligence Laboratory, Faculty of Computer and Information Science, Univerza v Ljubljani, Slovenia, and (ii) Clinical Professor Stephen Fowler, Division of Infection, Immunity and Respiratory Medicine, School of Biological Sciences, The University of Manchester, United Kingdom

<https://smash.ung.si/>

Research Project: Refinement of the Preprocessing Steps Required for Biomarker Discovery in Breath Research

Research Area: Precision Medicine, Personalised Medicine and Life Sciences, Biomarker Discovery

Keywords: data science, machine learning, artificial intelligence, HPC infrastructure, personalized medicine, analytical chemistry, algorithm, breath research.

Education

Degree of Doctor of Philosophy, Programme of studies Doctorate in Physical Chemistry, The University of Nottingham, School of Chemistry, United Kingdom;

Supervisor: Emeritus Professor of Physical Chemistry Anthony J. Stace FRS, Tilden Medal, Aston Medal

Degree of Master of Chemistry in Chemistry (Hons, UCAS code F105), The University of Leicester, Department of Chemistry, United Kingdom;

Supervisor of the final year project: Emeritus Professor of Physical Chemistry Andrew M. Ellis

Accreditation of Degree of Doctor of Philosophy in Italy, Dottorato di Ricerca in Scienze Chimiche, CIMEA, Università degli Studi di Napoli Federico II, Italy

Accreditation of Degree of Doctor of Philosophy in Portugal, Grau Académico Português de Doutor, Universidade de Lisboa, Portugal

Research Experience

Research Associate at Fundação para a Ciência e Tecnologia FCT FCIências.ID, Departamento de Química e Bioquímica, Universidade de Lisboa, Lisboa, Portugal, within the context of two projects:

- PTDC/BAA-MOL/28675/2017 at Centro de Ciências do Mar e do Ambiente
- PTDC/BTM-TEC/28554/2017 at BioSystems and Integrative Sciences Institute

Professional experience

- Technical Support Assistant for Science, Landau Forte College, Derby, United Kingdom
- Personal Clerical Assistant, English Language Teaching Unit, The University of Leicester, United Kingdom.

Communication

- 20-23/08/2018, FT-ICR MS, End User, School 1, University of Eastern Finland, Finland, and European Network of Fourier-Transform Ion-Cyclotron-Resonance Mass Spectrometry Centers Grant agreement ID: 731077, contributed to Talk Session and Poster Session.
- 4/04/2012, Gas-Phase Spectroscopy of Metal-Containing Molecules and Complexes: Experiment and Theory Meeting, The University of Nottingham, United Kingdom, contributed to Talk Session.
- 4-6/01/2012: Spectroscopy and Dynamic Group (SDG) Annual Meeting, The University of Leicester, United Kingdom, contributed to Poster Session.

Language

Italian and British English fluently. European Portuguese (level B1.1) and French (level A2.1), both certificates awarded by Universidade de Lisboa respectively on November 2022 and June 2025.

Publication

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