

Rosaria Cercola

Chemist, Science Communicator, Writer

EDUCATION AND RESEARCH ACTIVITY

PhD in Physical Chemistry at The University of York	2015-2020
• Application of Laser-Interfaced Mass Spectrometry to Biological and Pharmaceutical molecules.	
• Visiting PhD Student at the University of Wisconsin-Madison.	06-07/2018
• Awarded the Departmental Mass Spectrometry Technical Studentship.	
MSc in Chemistry at the University of Naples, Federico II	2012-2015
• Development of QCM-Based Biosensors for Stem Cells Detection.	110/110 cum laude
BSc in Chemistry at the University of Naples, Federico II	2008-2012
• Spectrophotometric UV-Vis Study of the Nicotine-Water System.	103/110

PROFESSIONAL EXPERIENCE

Freelance Writer	03/2020-present
Mass Spectrometry Technician at the University of York (8 hours <i>per week</i>)	2015-2019
Sample analysis, maintenance, troubleshooting, re-stocking, and data managing. Customer Service. (GC/MS (EI, LIFDI) ESI-Q-TOF, APCI-TOF, HPLC).	
Chemistry Tutor	2015
High School Tutor	2012

VOLUNTEERING

Barscienza.it	2019-present
Writer, Editor, Twitter Account Manager, Filing System Manager, Web Site Developer.	
Physics World Student Contributor	2019-present
Writer and Peer Editor to Physics World research updates.	
Career Talk for Undergrad Students – Presentation of PhD Programs	2019
STEM Ambassador	2018-2019
Hands-on practical or exhibitions. Organization of the Phys Chem Team for the York Festival of Ideas.	
ChemBites.org	2017-present
Writer and Peer Editor.	

CERTIFICATION AND TRAINING

Journalism in a pandemic – Knight center for Journalism in the Americas	05/2020
Creating Digital Content – FutureLearn	05/2020
Arabic Language 2 – The University of York	06/2019
Arabic Language 1 – The University of York	06/2018
Writing In the Sciences - Dr. Kristin Sainani, Coursera	04/2018
License to practice chemistry - Ordine dei chimici della Campania	06/2015
IELTS - British Council	04/2015
European Computer Driving Licence (ECDL) - Core Level	02/2013

AWARDS

Departmental Mass Spectrometry Studentship	2015-2019
RSC Travel Grant	2018
Wild Overseas Fund Scholarship	2018
IOP Research Student Conference Fund	2018

PUBLICATIONS

- K. Uleanya, R. Cercola, M. Nikolova, E. Matthews, N.G.K. Wong and C.E.H. Dessent, accepted at *Molecules* (2020).
- R. Cercola, K.C. Fischer, S.L. Sherman, E. Garand, N.G.K. Wong, L.A. Hammerback, J.M. Lynam, I.J.S. Fairlamb and C.E.H. Dessent, accepted at *Chemistry - A European Journal*.
- R. Cercola, E. Matthews, and C.E.H. Dessent, *Molecular Physics* **117**, 3001 (2019).
- R. Cercola, K. Uleanya, and C.E.H. Dessent, *Molecular Physics* (2019).
- E. Matthews, R. Cercola, and C.E.H. Dessent, *Molecules*, **23**, 2036 (2018).
- E. Matthews, R. Cercola, G. Mensa-Bonsu, D. M. Neumark, C.E.H. Dessent, *J. Chem. Phys.* **148**, 084304 (2018).
- R. Cercola, E. Matthews and C.E.H. Dessent, *J. Phys. Chem. B* **121**, 5553, (2017).
- O. Maglio, S. Costanzo, R. Cercola, G. Zambrano, M. Mauro, R. Battaglia, G. Ferrini, F. Natri, V. Pavone and A. Lombardi, *Sensors* **17**, 2747 (2017).

ORAL CONTRIBUTIONS

- “UV laser spectroscopy of CO-releasing molecules for pharmaceutical applications” at the Spectroscopy and Dynamics Group meeting, 2019, University of Nottingham, UK.
- “Mapping the intrinsic photochemistry of Photo-CORMs *via* Gas-Phase Laser Spectroscopy” at the International Symposium on Molecular Spectroscopy, 2018, University of Illinois Urbana-Champaign, IL, USA.
- “Mapping the photochemistry of Photo-CORMs *via* gas-phase laser spectroscopy” at the RSC Photochemistry Group Meeting, 2017, University of Birmingham, UK.
- “Photochemistry of Photo-CORMs” at the Annual Northern Universities Meeting on Chemical Physics, 2017, University of Sheffield, UK.