

♀ **#WOMENINCHEMISTRY**



LAURA WYSOCKI

Maker of fluorescent dyes

Laura collaborates with undergraduate students to make useful fluorescent dyes. Her passion as an educator is encouraging students to act as scientists and citizens, engaging with complex technical issues facing society.

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JESSICA PICONE

Chemistry Teacher

Jessica teaches basic and advanced chemistry to high school students. She also teaches forensics. Labs, hands-on activities, and fancy demos are her speciality!

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PAULETTE VINCENT-RUZ

Equity-centred chemistry education research

Paulette's research seeks to build an understanding of the systemic disadvantages that hinder the success of marginalized students in chemistry and their effect on students' intellectual resources.

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JULIA ALVEY

RNA imaging and biology

Julia works on the development of tools and methods to image RNA in live cells. She then uses fluorescent probes to illuminate RNA biology in health and disease states.

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SILVIA BARRA

Chemistry Translator

Silvia is a chemist and translator of chemical documents, as well as a teacher of chemistry and chemical translation. She contributes to spreading chemical culture through translation and teaching.

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CHIARA PICCOLO

Project Portfolio Manager

Chiara oversees planning, development, and implementation of projects in the Fragrance Research & Development Division of Givaudan (with an emphasis on sustainability). She also coordinates the introduction of new products.

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ZOË AYRES

Senior Scientist

Zoë is an analytical chemist by background, working in the water industry. She works on creating, researching and testing new analytical techniques and technologies to help keep water safe.

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LANA HISCOCK

Organic synthesis PhD candidate

Lana is a synthetic organic chemist who makes fluorescent, highly coloured aromatic compounds which could have applications in organic electronics. She also uses X-ray crystallography to examine the solid state structures of her materials.

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DEVIN SWINER

Analytical chemistry PhD candidate

Devin is developing a new ionization source for mass spectrometry using cotton thread for small molecule analysis. This has applications in clinical diagnostics, such as drug monitoring and disease biomarker detection.

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LAURA LANNI

Organic Chemistry Professor

Laura has taught organic and general chemistry to thousands of students over decades in university lecture halls and high school classrooms. Her former students are teachers, engineers, pro golfers, doctors, researchers, architects, chefs, and opera singers.

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ALEXANDRA GELLÉ

PhD student and science communicator

Alexandra is a PhD student by day and a science communicator by night. She focuses on developing more sustainable chemical processes which can be triggered by light and proving to the public that chemists aren't evil earth destroyers!

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JULIANA VIDAL

Green chemistry PhD candidate

Juliana investigates the use of biochar (stored carbon produced from biomass residues) as a catalyst and advanced material. She also works for Beyond Benign, a green chemistry education initiative, and the Network of Early Career Sustainable Scientists and Engineers.

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SAMIA EL-ALI

Chemistry & Science Subject Lead

Samia inspires future generations of chemists through relevant teaching, embedding current developments in chemical research. She sequences curricula and designs assessments. She is also an examiner and monitors delivery of A Level Chemistry practical work.

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MOLLY HOPPER

Analytical Chemistry Professor

Molly teaches general and analytical chemistry at a primarily undergraduate institution. She also leads an undergraduate research lab studying plant metabolomics with mass spectrometry.

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SHANNON DAVIS

Ocean chemistry PhD candidate

Shannon studies how increasing carbon dioxide in the atmosphere affects ocean chemistry and the creatures in the ocean. Her research focuses on events like storms that might make the water more acidic for a short period of time.

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DANIELLE HUTCHISON

Actinide materials Postdoctoral Researcher

Danielle studies actinide materials to determine how their structure changes under high pressure conditions. This provides important information about chemical bonding in these materials, and the role played by f-orbitals and f-electrons.

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CATHY BLOEDORN

High School Chemistry Teacher

Cathy educates high school students during their first year of chemistry. She hopes to encourage them to take more chemistry, and to spark a life-long love and curiosity about science.

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SARI GROSSMAN

Biochemical Immunologist

A chronically ill scientist living with Crohn's Disease. Conducted natural product medicinal chemistry research during her undergraduate degree. She is now carrying out graduate research in therapeutics for host immunity diseases.

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KATE KOSTENKOVA

Bioinorganic and Bioorganic Chemist

Kate is a chemistry PhD candidate at Colorado State University working on the development of vanadium-based medicines for immunotherapy applications and synthesis and conformational analysis of lipid electron carriers.

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VI-ANH VU

Automating the synthesis of new drugs

Vi-Anh works at SRI International, screening and optimising reactions in order to synthesise new drug targets. Through this work, she is helping to shorten new drug development times in response to the COVID-19 pandemic.

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ROBIN BUMBAUGH

Herbal Supplement Industry Scientist

Robin tests incoming herbal raw materials for pesticide residues and microbiological contaminants. Her tests also help verify the identity of the material.

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HOLLY MILLER

Chemistry Teacher

A teacher of chemistry (and general science) in post primary schools in Northern Ireland. Previously, Holly worked as a chemistry technician in a school before studying chemistry at Queens University, Belfast.

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COURTNEY QUINN

Sustainable Energy Researcher

Courtney is researching sustainable hydrogen evolution catalysts. These allow the efficient production of high purity hydrogen from water, under mild reaction conditions, to assist with the path to net zero.

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COURTNEY JOHNSON

Analytical chemistry graduate student

Courtney previously worked with the Culbertson Group at Kansas State University on single-cell analysis using microfluidics. She is now a graduate student at UNC Chapel Hill and works in the Schoenfish lab studying biosensors.

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MONIQUE WILHELM

Lab Manager and Safety Officer

Monique provides the tools students and researchers need to do lab work, buying chemicals and consumables, maintaining and repairing equipment and instruments, and consulting on how to minimize risks to stay safe.

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TRICIA ROBSON

High School Chemistry Teacher

Tricia enjoys bringing chemistry alive using demonstrations, experiments, and interactive lessons for the students that she teaches in Erickson, MB, Canada.

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LEONIE BRIGGS

Teacher

Leonie is a teacher to the future generation of scientists. Aiming to inspire people to discover, interact, enjoy and take chemistry with science based careers and developing a life-long love of the subject.

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KAT DAY

Science Writer and Educator

Kat spends most of her time trying to explain tricky chemistry concepts in as few words as possible. She writes about chemistry on her blog, *The Chronicle Flask*, and has also written for *Crash Course Organic Chemistry*.

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ERICKA DUFFY

Scent and Taste Technician

Ericka works on flavour and aroma compounds through her work relating to perfume, cocktails, coffee, tea, and water. She has also worked in cosmetics and is trained as a taster of spirits such as cognac and whisky.

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CHARLOTTE MARIE ISTANCE

Mature MChem student

Charlotte is a strong advocate of women and LGBTQ+ in STEM, and speaks openly about mental health. She returned to education in her 30s and is currently working on phosphorus chemistry, with a future interest in radiochemistry.

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RACHEL IRLAM

Biomaterials for regenerative medicine

3D bioprinting promises to revolutionise 21st century medicine, with the 'bioink' key to its success. Rachel's work aims to develop a novel polymeric protein-based hydrogel that is not harmful to living tissue and can be printed.

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MICHELLE FRANCL

Quantum Chemist and Writer

Michelle developed methods for computational quantum chemistry and explores structures of molecules that misbehave. She writes about science, culture, and policy, teaches at Bryn Mawr College, and is a Scholar at the Vatican Observatory.

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JAVIERA OSORIO BUNSTER

Pharmaceutical Chemist

Javiera is a technical director of a cosmetics laboratory. Over the past year, her laboratory has made tons of alcohol gel to aid the response to the COVID-19 pandemic.

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ALEXANDRIA WATTS

Petroleum Lab Analyst

Alexandria currently works at a petroleum lab. She carries out testing on gasoline to see if it meets regulations. She mainly uses gas chromatography (checking for benzene, olefins, aromatics, and oxygenates) for the testing.

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CATHERINE PIPER

Agrochemical Formulation Technology Lead

Catherine leads a group of talented formulation chemists and spray technologists. They develop innovative technologies for a new generation of crop protection products. Their products enable farmers to grow more crops and help feed the world.

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MARISSA L CLAPSON

Cobalt carbenes and chemistry gamification

Marissa researches the design and application of PCP cobalt carbenes, which are used to activate small molecules (CO_2 , H_2O , and NH_3) for use in other reactions. She also develops chemistry games and experiential learning activities for undergraduate chemistry.

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MARIA DEBRUIN

Senior Scientist

On a daily basis Maria works with an amazing team of scientists developing medicines for animals. Their research produces products that improve the health of animals globally.

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ALLISON FOREMAN

Analytical Pharmaceutical Chemist

Allison performs quality control and testing of raw materials in a small ownership pharmaceutical company. She graduated from Harrisburg University majoring in Chemistry. Off time, she draws designing new original character designs and resin works.

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AMANDA CEVALLOS-VALLEJO

Organic materials synthesis

Amanda teaches organic chemistry in Ecuador and researches the synthesis of organic materials. She teaches how new molecules are made and how spectroscopy helps identify them. She has also worked on projects on science communication for young people.

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JACQUI HAMILTON

Atmospheric Chemistry Professor

Jacqui researches the formation of organic particles in the atmosphere. She focuses on how plant emissions interact with pollution in cities and has done field work in the Borneo rainforest and megacities including Beijing and Delhi.

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PERDITA BARRAN

Chair in Mass Spectrometry

Perdita uses mass spectrometry to measure the conformation of molecules. She makes and modifies instruments to determine structure function relationships. This helps make therapeutics and to diagnose disease and its progression, notably for Parkinson's Disease.

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DEEPIKA NARULA

Chemistry Teacher

Deepika teaches chemistry in a mixed state school in the UK. It gives her pleasure to see students succeed while learning chemistry. She hopes to inspire future chemists through teaching as her own teachers have stimulated her.

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YVETTE NAUDÉ

Chromatography mass spectrometry

Yvette develops non-invasive samplers to isolate chemicals from complex sources for analysis. Such sources include human and animal skin for disease diagnostics and pest control, and arid environments such as the enigmatic fairy circles of southern Africa.

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NATÉRCIA RODRIGUES LOPES

Laser Spectroscopist

As a spectroscopist, Natércia is interested in exploring how light interacts with matter. She studies how energy flows in molecules, how energy is transferred between molecules, and how we can control and apply these phenomena.

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GENEVIEVE BENT

Head of Science

Genevieve is a senior leader in education who is responsible for coordinating a science department (Sixth Form) and concerned with all things STEM, education and diversity & equity in science! She also founded Young, Gifted and STEM (YGASTEM).

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CAROLINE GAUCHOTTE-LINDSAY

Environmental Analytical Chemist & Engineer

Caroline heads a research group that creates and uses analytical tools to track contaminants in natural and engineered environments and understand how they transform.

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CARINA CRUCHO

Smart Nanoparticles Researcher

Carina performs creative and imaginative research on a timely project, centered on the application of stimuli-responsive nanoparticles with biomedical applications.

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LOUISE EAGLING

Medicinal Chemist

Louise carried out a PhD exploring a synthesis of arogonate, an intermediate on the pathway to aromatic amino acids. She currently works as a medicinal chemist in immuno-oncology, the study of treatments that harness the body's immune system to fight cancer.

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RACHEL O'BRIEN

Atmospheric Chemistry Assistant Professor

Rachel investigates the chemical composition of organic aerosol particles and other complex environmental mixtures found on indoor and outdoor surfaces. Her research topics include changes with ageing and developing methods for sample collection and analysis.

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CHRISTINE MORRISON

Assistant Professor of Chemistry

Christine's research aims to explore and exploit biological metal catalysts. She seeks to understand how biological metal catalysts form as well as to harness their capabilities in synthetic materials for applications in energy.

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LAUREN EVANS

Chemistry Teacher and STEM Coordinator

Lauren is a science and A level Chemistry teacher. She delivers training to local schools in the UK on STEM resources from the Royal Academy of Engineering.

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ROWAN MOORE

Director of Field Marketing

Rowan defines the marketing and applications landscape for Waters' chromatography & mass spectrometry solutions, spanning pharma, biopharma, clinical, food, environmental and materials science.

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STEPHANIE GIATAS

High School Chemistry Teacher

Stephanie teaches regular-level, honors-level, and AP Chemistry every day to inquisitive and brilliant young chemists.

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ERIN BAKER

Chemistry Associate Professor

Erin's research group utilizes analytical chemistry to examine both biological and environmental samples in order to understand the initial and resulting molecular changes that affect healthy systems.

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EMILY ROSE BRITTON

Botanical Medicine Advocate

Emily organizes educational events that showcase analytical chemists and their development and research of plant medicines and functional foods, and consults with scientists to guide them in choosing the right analytical instrumentation for their goals.

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MÓNICA FARIA

Artificial Organs Research Scientist

Mónica researches the development of membrane devices used in extracorporeal life support techniques, such as blood oxygenators/ artificial lungs for extracorporeal membrane oxygenation (ECMO) and hemodialyzers/ artificial kidneys for hemodialysis.

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DEBBIE GALE MITCHELL

Magnetic Resonance Spectroscopist

Debbie uses large magnets to study free radicals (molecules with unpaired electrons). Reacting unstable free radicals with another molecule called a "trap" makes them more stable and easier to observe. She uses this technique to study radicals formed by polycyclic aromatic hydrocarbons in cloud droplets.

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AMANDA PATRICK

Chemistry Assistant Professor

Amanda's research team uses mass spectrometry and related techniques to learn about molecules, from performance-enhancing drugs to next-generation spacecraft propellants, in the gas phase.

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MEGAN WESTWOOD

Biophysical chemistry graduate student

Megan is a first-generation graduate student researching thermodynamics of mismatched and damaged DNA by nuclear magnetic resonance and teaching undergraduate chemistry labs. She is also a proud LGBTQ+ and STEM advocate.

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YOLANDA HEDBERG

Corrosion Science Researcher

Yolanda is an assistant professor in chemistry at Western University, Canada. She carries out research on health aspects of materials and their corrosion processes in the human body and biological environments.

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MAGGIE TAM

Detecting drugs and explosives

Maggie researches the field detection and identification of drugs and explosives. She develops methods in assessment of equipment which can be used in the field. She is a chartered chemist and President of the International Society for Ion Mobility Spectrometry.

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ALANA FOGATA

Innovator in disease diagnostics

Alana led development of ultra-sensitive assays to detect SARS-CoV-2 antigens and conducted studies on the pathology of COVID-19. She hopes to innovate gynaecological diagnostics technologies and transform women's healthcare with personalised medicine.

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RACHEL CARLING

Consultant Clinical Chemist

Rachel delivers the metabolic biochemistry & regional newborn screening service at Guy's & St Thomas' Hospital. She uses mass spectrometry, separation science and analytical continuous quality improvement to improve the patient pathway.

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AMAL ZAOUN

Chemistry Teacher and Pharmacist

Amal's role is to facilitate learning through active learning environmental and project base learning. This approach enhances the ability of the students to creatively and critically analyse, evaluate, solve problems and participate and collaborate with others.

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KIMBERLY E BEATTY

Chemical Biology Professor

Kimberly makes fluorescent molecules to light up cellular proteins and pathogens. Much of her work focuses on *Mycobacterium tuberculosis*. She creates chemical probes to annotate the functions of enzymes that help these deadly bacteria survive in humans.

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LESLIE HICKS

Associate Professor and Mass Spectrometrist

Leslie's lab leverages the power of mass spectrometry to study proteins and peptides in photosynthetic organisms. This leads to the discovery and characterization of new antimicrobial peptides and the understanding of complex signaling networks.

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MEGAN SMYTH

Flow Chemistry Technical Leader

Megan leads technical development of flow chemistry capabilities (carrying out chemical reactions in a continuous stream) and delivery of projects for customers. She also leads multiple industrial-academic flow chemistry research collaborations.

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KEALEY GODKIN

Chemistry Teacher

Kealey teaches and aims to inspire children aged 11-18 all about the wonders of chemistry; from the start of 'what is an element?' to synthesising and analysing molecules like aspirin.

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JENNY KERSHAW

Chemistry Tutor

Jenny is a science tutor encouraging curiosity and wonder in students, whilst helping them to build confidence and belief in their abilities. Alongside supporting young people to succeed in school, she inspires interest in scientific careers.

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JIN KIM MONCLARE

Protein-engineered materials & biocatalysts

Jin's lab is performing groundbreaking research in engineering proteins to mimic nature and, in some cases, work better than nature. Her research exploits nature's biosynthetic machinery and evolutionary mechanisms to design new artificial proteins.

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KATE FELL

Environmental Analytical Chemist

Kate researches the identification of pharmaceutical micropollutants in complex environmental samples such as wastewater and biosolids. This includes optimisation of analytical techniques including derivatisation and gas chromatography.

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VALERIE VAISSIER WELBORN

Computational Chemistry Assistant Professor

Valerie develops atomistic models of biological and chemical systems to understand how they function, from the ground up. This involves using classical and quantum physics to predict the unique way atoms and electrons move in proteins, polymers, and other molecules.

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VIVIAN CHRISTOGIANNI

Silicone Mouldable Glue Researcher

Vivian carries out research on the chemistry of silicone adhesives for the development of effective products that are safe for children to use and enable people to fix things and reduce waste.

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REBECCA BALLANTYNE

Nuclear Analytical Chemist

Rebecca works in the nuclear power industry and has a long-standing passion for encouraging others into science. She has won national awards for this in equality and diversity and was also listed in the Global Shakers international top 20 influential women in science.

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SAMANTHA THERESA MENSAH

Biosensors Researcher

Samantha carries out research on the development of biosensors to detect neurotransmitters in vivo.

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ANHELÝ MILLÁN

Research and development

Anhely specialises in food and cosmetics science as well as packaging materials. She researched a method to extract water-soluble vitamins from cornflour and has also mentored Masters degree students on research for food processing and packaging innovations.

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MÍRIAM RODRÍGUEZ GARCÍA

Mechanistic mathematical modelling

Míriam is a chemist with a PhD in Applied Mathematics. She predicts the behaviour of super-bacteria using mechanistic mathematical models (based on current knowledge on chemistry, physics and microbiology) of bacterial resistance to antimicrobials.

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ANGELICA ORSI

Rechargeable Batteries Researcher

Angelica carries out research on materials for components of Li-S rechargeable batteries – beyond Li-ion technology. She completed a PhD at the University of St Andrews investigating metal-organic frameworks for carbon dioxide capture from gas waste streams.

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KAURELIA BALL

Computational biophysics of proteins

Aurelia studies intrinsically disordered proteins using molecular dynamics simulations to understand more about how these proteins interact with each other, how their shapes change, their binding sites, and how other molecules binding to them affects them.

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MARY BROWN

Analytical Chemist

Mary is an analytical chemist working with color concentrate in the plastics industry. She uses various analytical techniques in her day-to-day work, including liquid and gas chromatography, infrared spectroscopy, thermogravimetric analysis and colorimetry.

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RITU CHATURVEDI

Mass Spectrometrists

Ritu studies the structure and interactions of proteins using Hydrogen Deuterium Exchange (HDX) mass spectrometry. This involves measuring the change in changes in mass associated with hydrogens in the amide region of the protein swapping with deuterium.

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SUZE KUNDU

Science Communicator

Suze shares the wonders of chemistry through live shows, lectures, popular science writing and presenting science TV shows. She pushes for greater equality, diversity and inclusion in all aspects of open and collaborative research culture. Trustee of the Royal Institution.

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M. TERESA QUIRÓS

Researcher in Metal Catalysis

Teresa does research and teaching in organic chemistry. She explores how reactions catalysed by transition metals work using experimental and computational chemistry, which opens the possibility of designing more efficient processes and new structures.

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PIUMIE RAJAPAKSHA

Water treatment PhD candidate

Piumie makes graphene oxide materials doped with copper oxide and zinc oxide nanoparticles. These materials were validated for removing organic pollutants from water, and significant killing of antimicrobial-resistant waterborne pathogens.

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ILVA NAKURTE

Phytochemistry Researcher

Ilva is a Doctor of Chemical Sciences from Latvia, focusing on the application of chromatography to a wide range of phytochemical challenges in the field of medicinal and aromatic plants. Laureate of the L'Oréal Baltic for Women in Science Fellowship 2018.

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ALLISON K

Future Dentist & Educator

Allison's research interests include dental materials, supramolecular chemistry, active and collaborative learning, and diversity and inclusion in the classroom. Previously a supplemental instructor for undergraduate organic chemistry. Currently a dental student.

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CAROLINA FONSECA

Laboratory Technician

Carolina uses automated systems to dispense and ship agrochemical samples to be tested in assays or on the fields. She also carries out day-to-day maintenance of the lab and maintains regular contact with customers and colleagues.

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NATALIE MCSKIMMING

High School Chemistry Teacher

Natalie is a UK trained teacher and teaches chemistry to students from ages 11 to 18 in Abu Dhabi. She loves sharing her passion for chemistry, and also runs a chemistry-based YouTube channel and Instagram for students called Miss Natalie Chemistry.

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FANNY YUEN

Green Lab Champion

Fanny engages scientists to build a culture of sustainable science. She helps industrial and academic labs to develop thoughtful science-based action plans that minimize their carbon footprint without compromising great research.

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CHRYSTAL BRUCE

Computational Chemist

Chrystal uses computers to understand how molecules move together. She supports mentoring, professional development, and advancement of women in STEM. She also advocates for undergraduate research, teaching, and learning.

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RACHEL WYNN

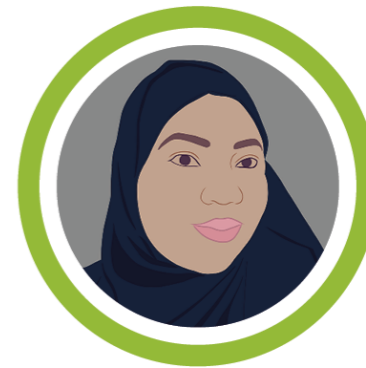
Trainee Science Teacher

Rachel is currently studying for a PGCE, training to teach secondary science, with a specialism in chemistry. She previously completed a PhD focusing on organic and medicinal chemistry and also has a Master's degree in chemistry.

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QUADRAT YUSUPH

Materials and metal-organic frameworks

Quadrat's research focuses on metal-organic frameworks (MOFs) and their applications. Metal-organic frameworks are metal ions or clusters held together by organic (carbon-based) structures. Their high internal surface area gives them applications in gas storage.

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CAROLINE POLLARD

Analytical Toxicology Teaching Fellow

Caroline helps deliver the Analytical Toxicology course at King's College London, having previously completed a PhD. Her role includes giving lectures, leading practicals and marking. She sees the most important part of her role as supporting her fantastic students.

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STACEY YORK

Director of Materials Science Tracks

Stacey oversees the 1st and 5th largest physics and chemistry master's programs in the US. She ensures students receive an education that will translate to industry. 90% of her students are employed within three months of graduating!

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AMINA JEGA YUSUF

Natural Product Chemist

Amina's research involves the characterisation of bioactive compounds from natural sources and testing the pharmacological activity of these isolated compounds.

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ROBIN BOND

Biogeochemist

Robin explores how microbes affect, and are affected by, the chemistry of their environment. She's also a college professor teaching chemistry. She runs a YouTube channel featuring problem-solving videos for students as well as general interest outdoor science videos.

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JEANITA PRITCHETT

STEM Educator and Communicator

Jeanita's role with STEAM Forward! Academy is to inspire youth to approach STEAM (STEM and Art) subjects with confidence, enthusiasm, and a genuine sense of belonging.

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CANDICE Z ULMER

Clinical Research Chemist

Candice is involved with the planning and execution of programs to ensure the accurate measurement of chronic disease biomarkers and the assessment of clinical analytical methods in patient care, both internationally and domestically.

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PARNIA JAVADI

Molecular Chemist

Molecular chemistry is a creative science, where chemists make molecules with new biological or physical properties to address scientific or societal challenges. Think of new catalytic conversions, compounds for future medicines, or the next generation of conducting polymers.

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NICOLE STATES

Chemistry Education Researcher

Nicole studies what instructional practices hinder or promote meaningful student interactions in a larger enrollment course, to promote student retention in large, stadium-style lecture halls, where student engagement is more difficult to achieve.

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