

CAREER and EDUCATION

- 2022 Reader in EPR Spectroscopy at Imperial College London
 - 2019 Senior Lectureship at Imperial College London
 - 2018 Senior Lectureship at Queen Mary University of London (QMUL)
 - 2013 Lectureship at QMUL
 - 2012 DPhil in Inorganic Chemistry, University of Oxford
 - 2008 German Academic Exchange Service Scholar (China) and Beijing Foreign Studies University Graduate
 - 2006 MChem, University of Oxford, 1st Class
- Two career breaks (children born 2013 and 2018)*

AWARDS and PRIZES

- 2022 EuroBIC Medal (awarded to one researcher in the field of Bioinorganic Chemistry every two years)
- 2022 International EPR Society Best Paper Award (for Nat. Commun. 2021)
- 2016 Outstanding contribution to teaching ADEPT award, Queen Mary University of London
- 2012 DPhil thesis commendation based on exceptional examiner's comments & Vice Chancellor's Award
- 2011 Jeol prize (Runner-up) of the EPR Group of the Royal Society of Chemistry
- 2010 Margaret K B Day Scholarship for excellence in doctoral research
- 2007 Prize for best Mandarin language student, Beijing Foreign Studies University
- 2003-6 Academic scholarship from University College, University of Oxford

Prizes my students have won (selection):

- 2021 Jeol Runner-Up PhD Prize: Katherine Richardson
- 2021 Best overall MRes student Prize in Nanomaterials: Yunfei Dang
- 2020 Jeol Runner-Up PhD Prize: Kaltum Abdiaziz
- 2020 Best overall MRes student Prize in Catalysis: Yara van Ingen

GRANTS WON (total > £4 M of which £3.8 M as principal investigator, PI)

- 2022 Spins and superconducting circuits for advanced spectroscopy, EPSRC, £1.05M, PI, 3 years
- 2022 Synchronized Structure and Dynamics Investigations of Ionic Liquids by Pulse EPR, Leverhulme Trust, £307k, Co-Investigator, 2.5 years
- 2020 PEPR - A centre for Pulse Electron Paramagnetic Resonance spectroscopy, EPSRC, £2.3M, PI, 4 years
- 2020 Hyperfine EPR spectroscopic investigations of the semiquinone intermediate in respiratory complex I, The Royal Society, £20k, PI, 1 year
- 2019 Film-electrochemical EPR: a new method to investigate redox-based catalysis, Leverhulme Trust, £271k, PI, 3.5 years
- 2016 Increasing plant stress tolerance by unravelling and exploiting the mechanism of the photosynthetic NDH complex, EPSRC seed funding, £25k, PI, 6 months
- 2016 New biocatalytic routes to biologically important amino acid derivatives: Determining the function of a novel tryptophan-derivatising enzyme, EPSRC seed funding, £23k, Co-investigator, 6 months
- 2015 How does respiratory complex I pump protons? Finding the missing link using EPR spectroscopy. EPSRC, £125k, PI, 2.5 years
- 2014 Electron paramagnetic resonance (EPR) studies of a giant enzyme: understanding how mitochondrial complex I pumps protons, The Royal Society, £15k, PI, 1 year

INVITED TALKS and CONFERENCE ORGANISATION

Plenary Talks: European Bioinorganic Chemistry Conference, Grenoble, France (07/22); 43rd FGMR Discussion Meeting of the German Chemical Society (09/22); Inorganic Chemistry Reaction Mechanisms Discussion meeting (09/22; declined due to clash with FGMR)

Invited and Keynote Talks (>10): European Bioenergetic Conference, Aix-en-Provence, France (08/22); Perspectives in Bioenergetics Bochum (09/2021); ISMAR-APNMR Japan (08/2021); CCPN (Collaborative Computing Project for NMR – invited 'non-NMR' speaker) 08/2021; European Federations EPR meeting keynote (09/2019); International Conference for Bioinorganic Chemistry (07/2019); Quantum Bio•Inorganic Chemistry Conference V keynote (07/2019); Bioenergetics GRC USA (06/2017); 50th Anniversary RSC EPR Annual

International Meeting (04/2017); 2nd Joint NSFC-RSC Symposium on Chemical Biology (12/2017); 3rd Awaji International workshop Japan (06/2015); International Symposium EPR and Theory Manchester (02/2014)

Invited Departmental/Institutional Seminars (14): Max Planck Institute Muelheim Germany (05/2021), Astbury Centre Leeds (02/2021), Crick Institute (02/2021), University of Sussex (09/2020), Electrochemistry Network Imperial (07/2020), University College London (02/2020), University of Manchester (12/2019), University of Bath (01/2018), King's College London (01/2018), University of Cardiff (11/2017), University of York (04/2017), London Structural Biology Club (03/2016), Free University Berlin (06/2011), Goethe University Frankfurt (03/2010)

Conference Organisation: Local organiser of the 51st Annual International Meeting of the ESR Spectroscopy Group of the RSC (8-12 April 2018), >150 delegates

SUPERVISION

Graduated PhD students:

2022 Katherine Richardson (Jeol Prize Runner-up; PDRA at Sheffield University)
2022 Spyridon Koutsoukos (co-supervisor; PDRA at Imperial College)
2020 Kaltum Abdiaziz (Jeol Prize Runner-up; PDRA at Max Planck Institute)
2019 Martina Cirulli
2018 John Wright (PDRA at University of Cambridge)

Current group members:

8 PhD students as lead supervisor: Adam Sills, Fang Fang, Davide Facchetti, Sarah Walton, John Britton, Yunfei Dang, Eleanor Clifford, Angeliki Chatziathanasiou
2 PhD students as co-supervisor: Gemma McGuire, Molly Parry
3 PDRAs: Jana Eisermann, Maryam Seif-Eddine, Braise Geogheghan
1 Facility Manager: Alberto Collauto (Centre of Pulse EPR)

TEACHING and OUTREACH

- Fellow of the Higher Education Academy
- Developed two undergraduate (UG) lecture courses ab initio at Imperial (3rd year Bioinorganic Chemistry and 2nd year EPR spectroscopy); further UG lecture courses developed at QMUL (1st, 2nd and 4th year)
- Introduced EPR spectroscopy (theory and practice) into the UG curriculum at Imperial Chemistry; introduced EPR (theory) and electrochemistry (practical) into the UG curriculum at QMUL
- Outreach activities including the Great Exhibition Road Festival (2019 & 2022, >60k attendees), Imperial Lates (2019, >800 attendees), Centre of the Cell, White City Invention Rooms (ongoing)

POSITIONS OF RESPONSIBILITY (current)

- Director of the Centre for Pulse EPR (PEPR) at Imperial College London
- Vice-president (for Europe) of the International EPR Society
- External Advisory board member for the Institute of Microbiology, Bioenergetics and Biotechnology at Aix-Marseille University
- Member of the Royal Society of Chemistry (MSRC)
- Reviewer and Panel Member for the Engineering and Physical Research Council (UK)
- Reviewer for BBSRC, Human Frontiers Science Program, Boehringer Ingelheim Foundation (Germany), U.S. Department of Energy (USA), Danish National Science Foundation, The Royal Society (UK)
- Reviewer for top-tier journals including Science, Journal of the American Chemical Society, Angewandte Chemie, Chemical Science, Nature Reviews, Nature Communications
- PhD external examiner (Universities of St. Andrew's, Manchester, Halle)

PUBLICATIONS see [google scholar](https://scholar.google.com/) and [ORCID](https://orcid.org/)