

Academic Positions

2018 – present	Associate Professor: Colorado State University (<i>with tenure</i>); Senior Research Fellow, University of Oxford.
2014 – 2017	Associate Professor in Organic Chemistry: University of Oxford (<i>with tenure</i>)
2010 – 2014	University Lecturer in Organic Chemistry: University of Oxford
2009 – 2010	Fulbright UK-US Distinguished Research Fellow: UCLA with Prof. K. N. Houk
2009	HPC-Europa Visitor to ICIQ, with Prof. Feliu Maseras
2007 – 2009	Junior Research Fellow: St Catharine's College, Cambridge

Education

2005 – 2008	PhD: University of Cambridge, Department of Chemistry (<i>Prof. J. M. Goodman</i>)
2000 – 2004	MA MSci Natural Sciences: Trinity Hall, University of Cambridge <ul style="list-style-type: none">• 1st class degree, ranked top in the University; Rafael Prize for Organic Chemistry; Trinity Hall prize in Natural Sciences

Recent Awards and Honors

2018	<i>Cell: Trends in Chemistry</i> Editorial Board
2017	<i>Nature Journals</i> Outstanding Reviewer
2016	<i>Chem. Soc. Rev.</i> Emerging Investigator
2015	ACS COMP division Outstanding Junior Faculty Award
2015	RSC Harrison-Meldola Memorial Medal
2015	Thieme Chemistry Journal Award
2014	Molecular Graphics and Modelling Society Silver Jubilee Award
2014	ACS Organic Division Young Academic Investigators Award
2009 – 2012	Royal Commission for the Exhibition of 1851 Science Research Fellow

Selected Publications ([full list at Google Scholar](#))

- [Asymmetric nucleophilic fluorination under hydrogen bonding phase-transfer catalysis](#) Pupo, G.; Ibba, F.; Ascough, D. M. H.; Vicini, A. C.; Ricci, P.; Christensen, K.; Morphy, J. R.; Brown, J. M.; Paton, R. S.; Gouverneur, V. *Science* **2018**, *360*, 638–642
- [Molecular Recognition in Asymmetric Counteranion Catalysis: Understanding Chiral Phosphate-Mediated Desymmetrization](#) Duarte, F.; Paton, R. S. *J. Am. Chem. Soc.* **2017**, *139*, 8886–8896.
- [Computational Ligand Design in Enantio- and Diastereoselective Ynamide \[5+2\] Cycloisomerization](#) Straker, R.; Peng, Q.; Mekareeya, A.; Paton, R. S.; Anderson, E. A. *Nat. Commun.* **2016**, *7*, 10109.
- [Catalytic Enantioselective Synthesis of Indanes via Cation-Directed 5-Endo-Trig Cyclization](#) Johnston, C. P.; Kothari, A.; Sergeieva, T.; Okovytyy, S. I.; Jackson, K. E.; Paton, R. S.; Smith, M. D. *Nature Chem.* **2015**, *7*, 171–178.
- [Enzymatic Catalysis of Anti-Baldwin Ring-Closure in Polyether Biosynthesis](#) Hotta, K.; Chen, X.; Paton, R. S.; Minami, A.; Li, H. Swaminathan, K. T.; Mathews, I. I.; Watanabe, K.; Oikawa, H.; Houk, K. N.; Kim, C. Y. *Nature* **2012**, *483*, 355–358.

Invited Talks

ISTCP X, Tromsø, Norway · University of Vienna · UC Denver · Hanyang University · Pukyong University · 2nd International Symposium on Organic Reaction Mechanism, Shenzhen · Computational Catalysis for Sustainable Chemistry, Spain · 37th RMC, U. of British Columbia, Vancouver · *Predictive Catalysis* 2018, Girona, Spain · *11th EUCO-TCC*, Barcelona, Spain · Complutense University of Madrid · Colorado School of Mines · *Challenges in Computational Homogeneous Catalysis*, Stockholm, Sweden · *V ENEQUI*, Coimbra, Portugal · University of Cologne · University of Liverpool · KAIST · International School Marcial Moreno Mañas 2016, San Sebastian (plenary) · RSC Early Career Symposium 2016, University of Strathclyde (plenary) · RCOM9, Marseilles, France · Department of Chemistry · Colorado State University · Fort Collins · Colorado 80523 · USA

Queens University Belfast · 3rd Hans Suschitzky Symposium, University of Salford · RSC South East Symposium, University of East Anglia (plenary) · UK-Japanese Symposium on Asymmetric Catalysis, University of Manchester · University of Cambridge · Federal University of São Carlos · Warwick University · Heriot-Watt University · University of Geneva · POSTECH · International Symposium on Synthesis and Catalysis, Evora (plenary) · University of Helsinki · Computational Molecular Science 2015, University of Warwick · ICIQ · Imperial College London · RTWH Aachen · ACS Organic Division Young Investigators Award Symposium, San Francisco · Oxford · UCLA · University College London · Transatlantic Frontiers of Chemistry Meeting 2013, Kloster Seeon, Germany · Young Chemists Meeting 2013, Imperial College London · Seoul National University · Asia-Pacific Conference of Theoretical/Computational Chemistry (APCTCC 6), Korea · Centre for Computational Chemistry, University of Bristol · Centre for Coordination Chemistry (LCC), University of Toulouse · ICQC Satellite Meeting, UCLA · University of Birmingham · University of Nottingham

Research Activities

- 2019: ACS National Meeting COMP symposium ‘*Probing Reactive Intermediates Through Chemical Computations*’ co-organizer.
- 2014-2015: Visited high schools in inner London to conduct chemistry workshops introducing students to IR spectroscopy and career routes for chemists.
- 2014-2017: Chemistry tutor for residential courses aimed at increasing participation in higher-education. Lectured high-school students from schools under-represented in higher education: 70% of students attending obtained offers from Oxford/Cambridge/Imperial. I have written a book on Chemistry problems distributed by the RSC throughout UK schools, and was head-mentor for the UK at the International Chemistry Olympiad in Budapest.
- Editorial Board Member, *Cell: Trends in Chemistry*; *Journal of Molecular Graphics and Modelling*; *Frontiers in Chemistry*.
- Peer Reviewer for *Nature*, *Chem*, *JACS*, *Angewandte Chemie*, *Chemical Science*, one of *Publons* top reviewers in Chemistry, 99th percentile last 12 months; *Nature Journals* Outstanding Reviewer award (2017)
- EPSRC College of Peer Review; RSC Undergraduate Research Bursary Expert Grant Assessment Panel; External specialist Assessor to the Research Fellowship appointments panel for University of Cambridge colleges; *ad hoc* proposal reviewer for European Research Council, BBSRC, Leverhulme Trust, Royal Society, European Research Council, Flanders Research Foundation, Swiss National Science Foundation, ACS PRF; external PhD examiner at Universities of Cambridge, Heriot-Watt, Helsinki.
- External PhD examiner at the Universities of Cambridge, Helsinki and Heriot-Watt.

Current Support

- 01/22/2018 – 01/22/2019 “Organocatalysis Across Solid-Liquid and Liquid-Liquid Phases” (XSEDE allocation TG-CHE180006)
- 2017-2019 “Organocatalytic Fluorinations with Fluoride Salts” as co-I (EPSRC - EP/R010064/1 £490,222)
- 2017-2019 “Computational dynamics studies of drug metabolism by P450 enzymes” as PI (European Commission, £160,541)