

**PERSONAL INFORMATION**

Philipp Kukura FRSC  
Professor of Chemistry and Fellow of Exeter College  
Physical and Theoretical Chemistry Laboratory, Department of Chemistry,  
University of Oxford  
Email: philipp.kukura@chem.ox.ac.uk  
URL: <http://kukura.chem.ox.ac.uk>

**• EDUCATION**

- 2006 *PhD in Chemistry*  
Department of Chemistry, UC Berkeley, USA  
Supervisor: Prof Richard A. Mathies
- 2002 *MChem*  
Department of Chemistry, St Hugh's College, University of Oxford, UK

**• CURRENT POSITIONS**

- 2018 – *Founder and non-executive Director*  
Refeyn (formerly: Arago Biosciences), Oxford UK
- 2016 – *Professor of Chemistry*  
Physical and Theoretical Chemistry Laboratory, University of Oxford, UK
- 2011 – *Official Fellow for Physical Chemistry*  
Exeter College, Oxford, UK

**• PREVIOUS POSITIONS**

- 2014 – 2016 *Associate Professor of Chemistry*  
Physical and Theoretical Chemistry Laboratory, University of Oxford, UK
- 2011 – 2014 *University Lecturer*  
Physical and Theoretical Chemistry Laboratory, University of Oxford, UK
- 2010 – 2015 *EPSRC Career Acceleration Fellow*  
Physical and Theoretical Chemistry Laboratory, University of Oxford, UK

**• FELLOWSHIPS**

- 2010 – 2011 *Research Fellow*  
St Hugh's College, University of Oxford, UK
- 2006 – 2010 *Postdoctoral Fellow*  
ETH Zurich, Zurich, Switzerland  
Supervisor: Prof Vahid Sandoghdar

**• DISTINCTIONS**

- 2019 Blavatnik Award for Young Scientists UK, Chemistry Laureate
- 2018 Klung-Wilhelmy Science Award (Chemistry)
- 2018 Blavatnik Award for Young Scientists UK, Chemistry Finalist
- 2018 Royal Society Wolfson Research Merit Award
- 2017 EBSA Young Investigator Award and Medal
- 2015 Royal Society of Chemistry Marlow Award
- 2015 Visiting Professor Sapienza University of Rome
- 2014 ERC Starting Investigator Grant
- 2014 Visiting Professor University of Erlangen
- 2011 Royal Society of Chemistry Harrison-Meldola Award
- 2011 Elected Fellow of the Royal Society of Chemistry
- 2010 EPSRC Career Acceleration Fellowship
- 2006 Society of Spectroscopy Graduate Student Award
- 2002 Thesis Prize, Oxford University

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

- 2018 – Supervising 4 postdocs, 8 graduate students and 3 Masters students
- 2010 – 2018 Have supervised 11 postdocs, 7 graduate students and 12 Masters students

- **TEACHING ACTIVITIES**

- 2017 Examiner of MChem 3<sup>rd</sup> Year Final Examination in Physical Chemistry
- 2016 Examiner of MChem 2<sup>nd</sup> Year Examination in Physical Chemistry
- 2014 – 2015 Examiner of MChem Preliminary Examination in Physical Chemistry
- 2011 – Official Fellow for Physical Chemistry, Exeter College, Oxford, UK  
3 groups of 6 students/year (144 hrs p.a.)
- 2010 – Examiner of 6 PhD theses
- 2010 – Organiser and lecturer of core MChem course *Photochemistry and Photophysics and Symmetry I*
- 2006 – 2010 Teaching assistant – Molecular spectroscopy and Signal Processing, ETH Zurich, Department of Chemistry, USA
- 2003 – 2004 Teaching assistant – Graduate Quantum Mechanics, UC Berkeley, Department of Chemistry, USA
- 2002 – 2003 Teaching assistant Organic Chemistry 3a, UC Berkeley, Department of Chemistry, USA

- **ORGANISATION OF SCIENTIFIC MEETINGS**

- 2018 Chair: New Methods for Studying Structural Dynamics of Macromolecules  
Molecular Biophysics Subgroup of the Biophysical Society
- 2013 Session Chair CLEO
- 2011 Member of the organising committee COMET 2011

- **INSTITUTIONAL RESPONSIBILITIES**

- 2015 – 2016 Co-organiser Physical Chemistry Seminar Series
- 2014 – 2017 Steering Committee of the Conference of Colleges
- 2013 – 2014 Finance & Estates Committee, Exeter College, Oxford
- 2011 – 2013 Development Committee, Exeter College, Oxford
- 2011 – 2012 Buildings Committee, Exeter College, Oxford
- 2011 – Governing Body, Exeter College, Oxford

- **COMMISSIONS OF TRUST**

- 2019 International Advisory Board, J. Heyrovsky Institute of Physical Chemistry
- 2019 Chair to access panel at CLF, Harwell
- 2019 Editor: Current Opinion in Chemical Biology, Elsevier
- 2018 Panel: Engineering and Physical Sciences Research Council
- 2018 Guest editor: Current Opinions in Chemical Biology – Molecular Imaging
- 2017 Reviewer: NSERC Discovery Grant
- 2016 Panel: Engineering and Physical Sciences Research Council
- 2015 Member, Faraday Division Awards Committee, Royal Society of Chemistry
- 2014 Panel: Engineering and Physical Sciences Research Council
- 2011 Referee: DOE Young Investigator Award
- 2011 Panel: Engineering and Physical Sciences Research Council
- 2010 – Reviewer for a broad range of scientific journals including: Nature, Science, Nature Photonics, Nature Chemistry, Nature Methods, PNAS, JACS, PRL, Chemical Reviews, Nano Letters, JPC, JCPA/B, Nanoscale, ACS Nano, ACS Photonics, Optics Letters, Optics Express

- **SELECTED PREVIOUS FUNDING**

As PI grants valued at about €6.8 M since 2010, €1.5M as CoI and €0.8M for visitors

- 2014 – 2018 ERC Consolidator Grant, “Optical Imaging of Nanoscopic Potentials and Dynamics”, (PI, €1.997M)
- 2018 – 2020 ERC Proof of Concept Grant (PI, Single Molecule Imaging Mass Spectrometry, €142k)
- 2017 – 2019 EPSRC Impact Accelerator Award (PI, Interferometric Scattering Mass Spectrometry €104k)
- 2015 – 2018 EPSRC, “Direct observation and characterisation of physical autocatalysis by interferometric scattering microscopy”, (CoI, €689k)
- 2014 – 2018 ERC Starting Investigator Grant, “Optical Imaging of Nanoscopic Potentials and Dynamics”, (PI, €1.499M)
- 2013 – 2016 EPSRC, “Do you need a protein for efficient photochemistry?”, (CoI, €785k)
- 2010 – 2014 EPSRC Career Acceleration Fellowship, “Following molecular structure and dynamics in real time using femtosecond stimulated Raman spectroscopy”, (PI, €1.633M)

- **MAJOR COLLABORATIONS**

Prof JUSTIN BENESCH, Department of Chemistry, University of Oxford  
Prof STEVEN FLETCHER, Department of Chemistry, University of Oxford  
Prof ROLAND RIEK, Department of Chemistry, ETH Zurich  
Prof HELGE EWERS, Department of Biochemistry, FU Berlin  
Prof ALEX PERSAT, EPFL Lausanne  
Prof JONATHAN HEDDLE, Jagielloian University, Krakau  
Dr PHIL SELENKO, Weizmann Institute of Science  
Dr TIM CLAUSEN, Research Institute of Molecular Pharmacology, Vienna  
Dr AKSHAY RAO, Department of Physics, University of Cambridge  
Dr JAMES SELLERS, National Institutes of Health, Bethesda

- **INVITED TALKS**

More than 70 in national and international institutions and conferences:

Major international meetings

- 2019: Nanometa (plenary), Seefeld; Single Molecule and NanoSystems (plenary), Munich, Biophysical Society, Baltimore
- 2018: QBI Göttingen, Klosters Winterseminar; Gordon Research Conference Biointerfaces, Il Ciocco;
- 2017: European Biophysical Society, Edinburgh; Gordon Conference Coherent Control; ECSBM Amsterdam; RACI Centenary Congress, Melbourne; ACS Spring Meeting, San Francisco.
- 2016: Gordon Conference Vibrational Spectroscopy, New England; Biophysical Society 60<sup>th</sup> Annual Meeting, Los Angeles; International Conference on Retinal Proteins, Potsdam.
- 2015: European Biophysical Congress EBSA, Dresden.
- 2014: International Conference on Retinal Proteins, Nagahama.
- 2013: Deutsche Physikalische Gesellschaft, Spring Meeting, Hannover.
- 2012: International Conference on Raman Spectroscopy, Bangalore.

Smaller international meetings, national meetings and workshops

- 2018: Cardiff NanoBio Symposium, Hong Kong postgraduate symposium (keynote).  
2017: Graduate School Meeting, International Max Planck Research School for Molecular Medicine; DPG Summer School Advanced Microscopy; MMC 2017 Manchester.  
2016: International Conference on Retinal Proteins, Potsdam; German Biophysical Society, Erlangen; Picoquant Single Molecule Workshop, Berlin; Future Leaders in Physical Chemistry, Oxford; OWLS, Mumbai.  
2015: Good Vibrations Lorentz Conference Leiden; PhoQuS workshop, Warsaw; Microscience Microscopy Congress, Manchester.  
2014: British Biophysical Society, Warwick.  
2013: Institute of Molecular Science Workshop Okazaki; Center for NanoScience (CeNS) workshop, Venice; Quantum Effects in Biological Systems, Vienna.  
2012: International Conference on Raman Spectroscopy, Bangalore.  
2011: International Conference on Molecular Energy Transfer, Oxford.

**• PATENTS**

- 2001 Bradbury JE, Smith DR, Grant ER, Kukura P. Identification of material inclusions in pulp and paper using Raman spectroscopy. US6744500B2.  
2016 Kukura P, Weigel A, Benesch J. Interferometric Scattering Microscopy. GB2552195A, patent pending.

**• PAPERS**

Please refer to the publication section of this website.