

Imperial College
London

President's Address 2019

Celebrating the achievements
of our community



Welcome.



It is a pleasure to gather each year to pay tribute to our staff, students and alumni who have received external awards over the past year.

They inspire us with their devotion to excellence and their community spirit. Their actions bring credit to themselves, their families, their friends, their colleagues and to the College.

You will see brief descriptions of their achievements in this programme. As you read it, I think that you will be as overwhelmed as I am by the many ways they have used their time and talents for the benefit of society.

I hope that you will join me in congratulating these brilliant colleagues in the reception to follow. Their actions embody the excellence, values and impact Imperial College London is known for.

I also thank all members of the Imperial community who contribute in numerous ways in their professional and personal lives to make the world a better place.

Professor Alice P. Gast
President of Imperial College London

Roma Agrawal

Associate Director at AECOM and author of 'Built'; MSc Civil and Environmental Engineering 2005 MBE for services to engineering

Olivia Ahn

Co-Founder and CMO, Polipop; Medicine 2017
Winner of the 2018 Mayor of London's Entrepreneur competition for WithLula, a startup developing fully flushable and biodegradable sanitary products

Professor Neil Alford

Associate Provost (Academic Planning)
Awarded the 2018 Platinum Medal by the Institute of Materials, Minerals and Mining

Emanga Alobwede

Research Technician, Life Sciences
Winner of the EIT Food Global Venture Programme and EIT Food Entrepreneurship Prize for Bio-F Solutions, securing €35,000 of funding to progress their business. Bio-F also won the EIT People's Choice Award

Professor Jane Apperley

Chair of the Department of Haematology, Medicine
Appointed a NIHR Senior Investigator

Professor David Rueda

Chair of Molecular and Cellular Medicine, Medicine
Awarded a Wellcome Trust Collaborative Award in Science with partners for research into the mechanics and execution of homologous recombination

Professor Deborah Ashby

Director, School of Public Health
Selected as a panel member for the 2021 Research Excellence Framework

Dr Sonya Babu-Narayan

Clinical Senior Lecturer ACHD, National Heart and Lung Institute
Appointed Associate Medical Director of The British Heart Foundation

Professor Barbara Bain

Professor of Diagnostic Haematology, Medicine
Winner of the EHA Education and Mentoring Award from the European Hematology Association for outstanding efforts towards educating and mentoring haematologists worldwide

Dr Artem Bakulin

Research Fellow (Royal Society URF), Chemistry
Received the Marlow Award from the Royal Society for Chemistry, in recognition of the most meritorious contributions to physical chemistry or chemical physics. Also received the R.A. Robinson Lectureship Bursary to lecture in either Singapore, Malaysia, Australia or New Zealand

Abigael Bamgboye

Undergraduate student, Materials
Named Target Jobs Female Undergraduate of the Year 2018

Professor Dr Julian Bion

Medicine 1975
OBE for services to intensive care medicine

Dr Mattias Björnmalm

Marie Skłodowska-Curie Individual Fellow, Materials
Represented the Royal Society of Chemistry at the Voice of the Future event at the Houses of Parliament

Dr Henrietta Bowden-Jones

Honorary Clinical Senior Lecturer, Faculty of Medicine Centre; MD Neuroscience and Mental Health 2005
OBE for services to addiction treatment and research

Dr Adrian Bowyer

Mechanical Engineering 1997
MBE for services to 3D Printing

Professor Michael Bronstein

Chair in Machine Learning and Pattern Recognition, Computing
Elected a Fellow of IEEE

Professor Anthony Bull

Head of the Department of Bioengineering; Mechanical Engineering 1992, PhD 1995
Elected to the World Council of Biomechanics

Dr Francesca Ceroni

Lecturer, Chemical Engineering
Shortlisted for the L'Oréal-UNESCO Fellowship for Women in Science

Dr Clementine Chambon

Research Assistant (EPSRC Doctoral Prize Fellowship), Chemical Engineering; PhD Chemical Engineering 2017
Named Chemistry World Entrepreneur of the Year by the Royal Society for Chemistry and shortlisted for the L'Oréal-UNESCO Fellowship for Women in Science

Professor Lionel Clarke

Co-chair, UK Synthetic Biology Leadership Council, and Director, BionerG; Physics 1974
OBE for services to the synthetic biology sector



Professor Richard Craster
Professor of Applied Mathematics, Mathematics
 Selected as a panel member for the 2021 Research Excellence Framework



Dr Claudia de Rham
Professor in Theoretical Physics, Physics
 Joint recipient of the Adams Prize, awarded by the University of Cambridge Faculty of Mathematics and St John's College to UK-based researchers under the age of 40



Professor Dario Farina
Chair in Neurorehabilitation Engineering, Bioengineering
 Awarded a £10 million ERC Synergy Grant

Naomi Climer
Chemistry with Management 1986
 CBE for services to the engineering profession

Professor Emeritus Christopher Collier
Former Head of Strategic Partnership, National Centre for Atmospheric Science; Physics 1968
 MBE for services to atmospheric science

Dr Jim Crawley
Reader in Haematology, Medicine
 Elected the 2018 President of the British Society for Haemostasis and Thrombosis

Laura de Arroyo Garcia
Research Postgraduate, Life Sciences
 Winner of the EIT Food Global Venture Programme and EIT Food Entrepreneurship Prize for Bio-F Solutions, securing €35,000 of funding to progress their business. Bio-F also won the EIT People's Choice Award

Yves-Alexandre de Montjoye
Head of the Computational Privacy Group; Lecturer, Computing and Data Science Institute
 Appointed as a Special Adviser to the EU Competition Commissioner Margrethe Vestager

Professor Michele Dougherty
Head of Department; Professor of Space Physics, Physics
 Awarded the Richard Glazebrook Medal and Prize by the Institute of Physics for scientific leadership of the Cassini magnetic field instrument at Saturn and the European Space Agency (ESA) JUICE study team

Professor Sir Leslie Ebdon
Former Director of Office for Fair Access to Higher Education; Chemistry 1968, PhD 1971
 Knighted for services to higher education and social mobility

Professor Paul Elliot
Chair in Epidemiology and Public Health Medicine, School of Public Health
 Selected as Chair of Sub Panel 2: Public Health, Health Services and Primary Care for the 2021 Research Excellence Framework

Dr A. Aldo Faisal
Reader in Neurotechnology, Bioengineering and Computing
 Received \$50,000 through the Mobility Unlimited Challenge Discovery Award, funded by the Toyota Mobility Foundation to develop human-in-the-loop AI for rehabilitation engineering

Professor Alan Fenwick
Emeritus Professor, School of Public Health
 Winner of the Dominique Kyelem Annual Prize for lifetime achievement in the field of neglected tropical diseases

Professor Jorge Ferrer
Chair in Medicine and Genetics, Medicine
 Awarded a £2.2 million Advanced Grant from the ERC for research into expanding the genetic etiological and diagnostic spectrum of monogenic diabetes mellitus

Christina Friis Blach Petersen
CEO & co-founder, LYS Technologies Ltd; MSc Innovation Design Engineering 2016
 Featured in the *MIT Technology Review* Innovators Under 35 list 2018

Professor Amparo Galindo
Professor of Physical Chemistry, Chemical Engineering
 Named as Imperial's Lilly/ Royal Academy of Engineering Research Chair in Pharmaceutical Molecular Systems

Shaaz Ghouse
Research Assistant, Mechanical Engineering
 Joint winner of the 2018 Excellence in Translational Science Award from the *Journal of Orthopaedic Research*

Professor Tim Green
Co-Director of the Energy Futures Laboratory
 Elected to the Fellowship of the Royal Academy of Engineering

Professor Robin Grimes
Professor of Materials Physics, Materials
 Elected a Fellow of the Royal Society and awarded the Luis Federico Leloir Medal for International Cooperation in Science, Technology, and Innovation from the Argentinian Ministry of Science, Technology and Innovation

Inty Gronneberg
Research Postgraduate, Dyson School of Design Engineering
 Named Latin American Inventor of the year by *MIT Technology Review*

Dr Nir Grossman
Lecturer in Dementia Research, Medicine
 Awarded the 2018 Science & PINS Prize for Neuromodulation

Professor Angelika Grundling
Professor of Molecular Microbiology, Medicine
 Recipient of a £1.4 million Wellcome Trust Investigator Award

Professor Yi-Ke Guo
Director, Data Science Institute; Professor of Computing Science, Computing
 Elected to the Fellowship of the Royal Academy of Engineering

Professor Martin Hairer
Chair in Probability and Stochastic Analysis, Mathematics
 Selected as a panel member for the 2021 Research Excellence Framework

Professor Jonathan Haskel
Chair in Economics, Imperial College Business School
 CBE for public services to economics

David Havelock
Former Director of Credit Risk Group, UK Export Finance, Department for International Trade; Physics 1968
 CBE for services to the economy

Scott Heath
Work Package Manager, Thales; Chemistry with Management 2011
 BEM for services to the LGBT community

Professor Elaine Holmes
Professor of Chemical Biology, Surgery and Cancer
 Elected a Fellow of the Academy of Medical Sciences

Professor Alison Holmes
Professor of Infectious Diseases, Medicine
 Appointed a NIHR Senior Investigator

Dr Gustav Holzegel
Professor of Pure Mathematics, Mathematics
 Joint recipient of the Adams Prize, awarded by the University of Cambridge Faculty of Mathematics and St John's College to UK-based researchers under the age of 40

Dr Jonathan Jeffers
Reader in Mechanical Engineering, Mechanical Engineering
 Joint winner of the 2018 Excellence in Translational Science Award from the *Journal of Orthopaedic Research*

Dr Kim Jelfs
Senior Lecturer (Royal Society URF), Chemistry
 Awarded the Harrison-Meldola Prize by the Royal Society of Chemistry for an innovative approach to the computer-guided discovery of supramolecular and porous materials

Professor Sebastian Johnson
Asthma UK Clinical Chair; Director, Asthma UK Centre in Allergic Mechanisms of Asthma, National Heart and Lung Institute
 Awarded a £2.4 million ERC Advanced Grant for research into mechanisms of adverse effects of beta-agonists in asthma



Professor Andrew Livingston
*Professor of Chemical Engineering,
Chemical Engineering*
Awarded a €2.4 million ERC
grant for research into advanced
nanomembranes for exact
polymer production



Dr Clementine Chambon
*Research Assistant (EPSRC
Doctoral Prize Fellowship),
Chemical Engineering; PhD
Chemical Engineering 2017
Named Chemistry World
Entrepreneur of the Year by
the Royal Society for Chemistry
and shortlisted for the L'Oréal-
UNESCO Fellowship for
Women in Science*

Gavin Jones

Head of Income, Finance
Gained accreditation by Chartered Institute of Credit Management for Imperial. Imperial is the first higher education institution to achieve this award

Dr Patrik Jones

Reader in Metabolic Engineering, Life Sciences

Winner of the EIT Food Global Venture Programme and EIT Food Entrepreneurship Prize for Bio-F Solutions, securing €35,000 of funding to progress their business. Bio-F also won the EIT People's Choice Award

Dr Sridevi Kalidindi

Medicine 1992

OBE for services to rehabilitation psychiatry

Aaron Koshy

Co-Founder, WithLula; MSc Innovation Design Engineering 2017

Winner of the 2018 Mayor of London's Entrepreneur competition for WithLula, a startup developing fully flushable and biodegradable sanitary products

Dr Sonia Kumar

Director of Undergraduate Primary Care Education, School of Public Health

Winner of the AdvanceHE Collaborative Award for Teaching Excellence (CATE)

Sarah Kwok Yan Ho

Research Postgraduate, Chemistry

Awarded £7,500 by the Stevenson Fund to support postgraduate research

Professor

Andrew Livingston

Professor of Chemical Engineering, Chemical Engineering

Awarded a €2.4 million ERC grant for research into advanced nanomembranes for exact polymer production

Rainbow Lo

Research Postgraduate, Chemistry
Awarded £7,500 by the Stevenson Fund to support postgraduate research

Professor Nicholas Long

The Sir Edward Frankland BP Chair in Inorganic Chemistry, Chemistry

Selected as a panel member for the 2021 Research Excellence Framework and recipient of a Royal Society Wolfson Research Merit Award

Professor John Loughhead

Chief Scientific Advisor, Department for Business, Energy and Industrial Strategy; Mechanical Engineering 1970

CB for services to research and development in the energy sector

Professor Michael Lowe

Professor in Mechanical Engineering, Mechanical Engineering

Winner of the 2018 NDE (Nondestructive Evaluation) Lifetime Achievement Award of the International Society for Optics and Photonics

Professor Geoffrey Maitland

Professor of Energy Engineering, Chemical Engineering

CBE for services to chemical engineering and supporting connections between industry and academia

Professor Kathryn Maitland

Professor of Tropical Paediatric Infectious Diseases, Medicine

Received a Wellcome Collaborative Award in Science for a consortium for research and trials into severe malaria in Africa and awarded cofunding from EDCTP for COAST: Nutrition Childrens Oxygen Administration Strategies Trial. Also received an overseas programme award from the Wellcome Trust of £1.5 million

Professor Ricardo Martinez-Botas

Professor of Turbomachinery, Mechanical Engineering

Elected to the Fellowship of the Royal Academy of Engineering

Enrica Mazzon

Research Postgraduate, Mathematics

Awarded £7,500 by the Stevenson Fund to support postgraduate research

Professor Dame Angela McLean

PhD 1986

DBE for services to mathematical biology and scientific advice for government

Professor Irene Miguel-Aliaga

Professor of Genetics and Physiology, Institute of Clinical Sciences

Awarded a £1.9 million ERC grant for research into sex differences in intestinal plasticity

Piers Milner

Research Postgraduate, Mechanical Engineering

Joint winner of the 2018 Excellence in Translational Science Award from the *Journal of Orthopaedic Research*

Luciana Miu

Research Postgraduate, Chemical Engineering

Winner of the second Annual Wiley Women in Research Travel Grant competition

Dr Nuria Oliva-Jorge

Research Associate, Bioengineering

Shortlisted for the L'Oréal-UNESCO Fellowship For Women in Science and awarded the TECNIOspring PLUS Fellowship, within the Marie Skłodowska-Curie Action (Horizon 2020) and ACCIÓ funding (Generalitat de Catalunya)

Dr Faii Ong

CEO, GyroGear; MBBS 2016

Awarded €1.86 million from the Horizon 2020 programme to develop the GyroGlove, a novel device invented to stabilise hand tremors which affect 200 million people globally who suffer from Parkinson's disease and essential tremor

Dr Pavel Orlov

Research Associate, Computing

Received \$50,000 through the Mobility Unlimited Challenge Discovery Award, funded by Toyota Mobility Foundation and run by Nesta's Challenge Prize Centre, to further develop an AI wheelchair with the Brain and Behaviour Lab

Professor Maja Pantic

Professor of Affective and Behavioral Computing, Computing

Selected as a panel member for the 2021 Research Excellence Framework

Dhruv Patel

Computing 2004

OBE for voluntary service to the British Hindu community and social cohesion

Dr Giorgio Perin

Research Associate, Life Sciences

Winner of the EIT Food Global Venture Programme and EIT Food Entrepreneurship Prize for Bio-F Solutions, securing €35,000 of funding to progress their business. Bio-F also won the EIT People's Choice Award

Professor Nelson Phillips

Abu Dhabi Chamber Chair in Innovation and Strategy, Imperial College Business School

Winner of the Joanne Martin Trailblazer Award from the Organization and Management Theory Division of the Academy of Management

Dr Lorenzo Picinali

Senior Lecturer, Dyson School of Design Engineering

Coordinator of the 3D Tune-In project, which won the Healthcare Science Partnering Patients and Citizens award at NHS England's CSO Healthcare Science Awards

Professor

Matthew Pickering

Professor of Rheumatology and Wellcome Trust Senior Fellow in Clinical Science, Medicine

Awarded a Wellcome Trust Senior Clinical Fellowship for the third time

Professor Iain Colin Prentice

Chair in Biosphere and Climate Impacts, Life Sciences

Elected a fellow of the Royal Society and awarded a £2.4 million ERC grant for research into re-inventing ecosystem and land-surface models



Dr Cristina Lo Celso

Reader in Stem Cell Biology, Life Sciences

Awarded the Royal Microscopical Society Medal for Life Sciences for outstanding scientific achievements applying microscopy in the field of cell biology



Professor Julie McCann

Professor of Computer Systems, Computing
Winner of the Suffrage Science Award



Professor David Nutt

The Edmond J. Safra Chair in Neuropsychopharmacology, Medicine
Awarded Wellcome Trust funding for Tools for Human Neuroscience Drug Research (THuNDR)



Professor Guillermo Rein

Professor of Fire Science, Mechanical Engineering
Winner of the 2018 Arthur B. Guise Medal from the Society of Fire Protection Engineers (SFPE) Foundation in recognition of eminent achievements in the advancement of science and technology of fire protection engineering



Professor Mary Ryan
Vice-Dean (Research), Faculty of Engineering
Selected as a panel member for the 2021 Research Excellence Framework



Alan Stoyel
DIC 1961
OBE for services to water mill heritage

Professor Carol Propper
Associate Dean of Faculty and Research, Chair in Economics, Imperial College Business School
Elected an International Fellow of the National Academy of Medicine and awarded a £1.4 million ERC grant for research into the impact of the labour market on the production of healthcare and health

Ian Prosser
HM Chief Inspector of Railways and Director, Railway Safety, Office for Rail and Road; BEng in Chemical Engineering
CBE for services to railway safety

Jona Ramadani
Research Postgraduate, Chemical Engineering
Awarded an SCl Scholarship of £5,000 over two years to support PhD studies in the Department of Chemical Engineering

Dr Anna Regoutz
Imperial College Research Fellow, Materials
Winner of a Student Academic Choice Award for Best Teaching for Undergraduates

Robert Rouse
MSc/MA Innovation Design Engineering 2017
Winner of the Worshipful Company of Engineers' Hawley Award for Engineering Innovation for Remora, a design for marine turbines and ship thrusters that filter and extract plastic as they operate

Professor Guy Rutter
Chair in Cell Biology and Head of Cell Biology, Medicine
Successfully renewed a £1.7 million Wellcome Trust Investigator Award

Professor David Sharp
Professor of Neurology, Medicine
Successfully applied to lead a programme in care research and technology under the UK Dementia Research Institute

Professor Molly Stevens
Professor of Biomedical Materials and Regenerative Medicine, Materials and Research Director for Biomedical Material Sciences, Institute of Biomedical Engineering
Appointed Trustee of the National Gallery. Also awarded the Rosalind Franklin Medal and Prize by the Institute of Physics for contributions to ground-breaking and influential advances in the engineering of bioinspired materials for regenerative medicine and biosensing applications

Dr Ileana Stigliani
Associate Professor of Design and Innovation, Imperial College Business School
Named among the world's top 40 business academics under the age of 40 by Poets & Quants

Professor Adrian Sutton
Professor of Nanotechnology, Physics
Awarded the David Tabor Medal and Prize by the Institute of Physics for definitive contributions to the nanophysics of interfaces and dislocation elastodynamics

Dr Paolo Taticchi
Principal Teaching Fellow, Imperial College Business School
Appointed Knight of the Order of Merit of the Italian Republic and named among the world's top 40 business academics under the age of 40 by Poets & Quants

Professor Jonathan Valabhji
Consultant Diabetologist and Professor of Practice (Diabetes), Imperial College Healthcare NHS Trust; National Clinical Director for Diabetes and Obesity, NHS England
OBE for services to diabetes and obesity care

Marine Valton
Research postgraduate and Research Assistant, Life Sciences
Winner of the EIT Food Global Venture Programme and EIT Food Entrepreneurship Prize for Bio-F Solutions, securing €35,000 of funding to progress their business. Bio-F also won the EIT People's Choice Award

Dr Richard Jan van Arkel
Lecturer, Mechanical Engineering
Joint winner of the 2018 Excellence in Translational Science Award from the *Journal of Orthopaedic Research*

Professor Luc Vandeperre
Professor of Structural Ceramics, Materials
Winner of a Student Academic Choice Award for Best Feedback

Dr Jess Wade
Research Associate, Physics
Awarded the Daphne Jackson Medal and Prize by the Institute of Physics for acting as an internationally-recognised ambassador for STEM. Also named as one of 'ten people who mattered this year' by the journal *Nature*

Shiqi Wang
Research Postgraduate, Chemical Engineering
Winner of the Chinese government award for outstanding self-finance students abroad in recognition of academic excellence

Dr Nigel Watson
Medicine 1982
MBE for services to general practice

Professor Laurence Williams
Senior Research Investigator, Centre for Nuclear Engineering, Department of Materials
OBE for services to nuclear safety and radioactive waste management

Dr Gokhan Yildirim
Assistant Professor of Marketing, Imperial College Business School
Awarded the 2018 Gary L. Lilien Practice Prize by the INFORMS Society for Marketing Science

Professor Xiaodong Zhang
Professor of Macromolecular Structure and Function, Medicine
Received a Wellcome Trust Investigator Award to research into structures, recruitment and regulation of DNA damage response

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