
Scottish Crucible 2018

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Dr Craig Anderson

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Craig Anderson is a Lecturer in Statistics at the University of Glasgow.

He obtained both an Honours degree and a PhD in Statistics at the University of Glasgow. After completing his PhD in 2015, he moved to Australia to take up a position as a Postdoctoral Research Fellow at the University of Technology Sydney, working as part of the ARC Centre of Excellence for Mathematical and Statistical Frontiers (ACEMS). In 2017 he returned to Glasgow to take up his current post. Craig's research interests lie in statistics for health data; specifically spatial and spatio-temporal modelling of disease risk and the modelling of child growth trajectories.

Dr Ayse Basak Cinar

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A Senior Research Fellow (DDS, MBA, PhD, DSci) and an internationally accredited Coach (International Coaching Community, recognized by the European Mentoring and Coaching Council-EMCC-). AB Cinar pioneers in the field of coaching profession and leadership to have a profound impact on the way the world does business for positive transformation and better management of well-being globally. She is the winner of the EMCC International Coaching Award (2016), 100 Best Global Coaching Leaders Award, 50 Outstanding Women in Healthcare Management (2016) for successful implementation of an international coaching project for effective diabetes management to promote well-being in society through building the bridge between business, academia, public health and the society. Recently accredited as a Marshall Goldsmith Coach for measurable and effective Leadership Development.

Dr Cinar designs, plans, coordinates and manages international/national coaching and leadership development projects, in cross-disciplinary settings with multidisciplinary teams and diverse stakeholders over 10 years. She has been transferring knowledge and experience from her evidence-based projects into training excellence for under- and post-graduate students internationally through interdisciplinary collaboration. She currently works at the UoD in collaboration with national and international multidisciplinary stakeholders a pump priming project to set up a Social Business Model for Global Health, underpinned by coaching intervention to deliver a best-in-class coaching and leadership development programme for healthcare professionals, to be a new workforce - health coaches - to tackle the burden of non-communicable diseases, in line with WHO Healthcare Workforce Management Strategies, UN SDGs and with priority areas of the Scotland's Economic Strategy.

She is experienced at professional 1-1 coaching, coaching training, coaching supervision, and training (e.g. healthcare services management, Leadership Development for NCDs management, health behaviour management).

Dr Luis Bimbo

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I am currently a Chancellor's Fellow and Lecturer in Drug Delivery at the Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, UK. I graduated as a pharmacist from the University of Coimbra, Portugal, hold an MRes in Cell Biology from the same University and a PhD in Pharmaceutical Technology from the University of Helsinki, Finland. My PhD research focused on the biocompatibility, biofunctionalization and drug delivery capabilities of porous silicon particles. The PhD thesis that resulted from this project garnered the Best Thesis Award from the Viikki Research Group Organization 2012, which comprises all Biosciences except Medicine, and the International Award for the Most Outstanding Doctoral Thesis in the Pharmaceutical Sciences by the APV 2014. I was also awarded the Albert Wuokko Award to a Young Researcher 2012 from the Finnish Pharmaceutical Society (Finland's most prestigious pharmaceutical award to a young researcher) and was the recipient of the Young Researcher Award 2015 from the Faculty of Pharmacy, University of Helsinki, Finland. In addition, I was conferred the title of Docent in Pharmaceutical Nanotechnology (equivalent to Adjunct Professor) at the University of Helsinki, Finland after an external evaluation process of my scientific and educational skills.

My research interests lie on development novel engineered materials for advanced drug delivery systems, such as porous silicon and porous polymers, supramolecular hydrogels, and drug nanocrystals. I have specialized in formulation development and pharmaceutical engineering, particularly for pulmonary and parenteral delivery of small molecules and peptides. I have also developed work in solid state analysis of pharmaceuticals, 2D and 3D cell culture for assay development, HPLC method development, drug dissolution, bio-conjugation, ROS and cytokine assessment, flow cytometry and confocal microscopy and general spectroscopic methods, such as UV, FTIR and CD, especially in the context of protein and inorganic particles analysis.

Dr Alistair Boyer

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My research focusses on creating original methods of stitching these atoms together to make important, new and interesting organic molecules, bioactive compounds and modern materials. Since 2017, I am a Royal Society-TATA University Research Fellow at the University of Glasgow and am currently interested in designing new reactions and catalysts based upon manipulating high energy intermediates to make value-added compounds.

Dr Damion Corrigan

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My research focuses on the development of rapid, cheap diagnostic tests. This is achieved through fabrication of micro and nano arrays of sensors which are then used to measure biological binding events. We develop sensors for antibiotic resistance (e.g. multi drug resistant TB), sepsis causing bacteria and biomarkers of cancer.

My academic background is interdisciplinary. I have a first degree in Cell Biology, a PhD in Analytical Chemistry and undertook Post Doctoral positions at the interfaces between Chemistry, Engineering and Biomedical Science before starting my own lab in May 2016 at the University of Strathclyde.

Dr Jillian Couto

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Jillian is a genome scientist and a postdoctoral research associate in the School of Engineering at the University of Glasgow. She is part of the Water and Environmental Engineering research group where she is focused on developing strategies to scale up high yield biotechnologies. She works on platform micro organisms that are used to make valuable products. Although many of these biotechnologies are designed in and work well in a lab setting, they often fail to scale up to full industrial production. Going from lab to full scale is a complex multi-step process. As a molecular geneticist, Jillian is interested in the impact the scale-up process has on the genomes of these platform organisms.

Jillian did not start her career as an environmental engineer. She completed both her undergraduate degree (Human Biology and Zoology) and her PhD (Human Molecular Genetics) at the University of Toronto in Canada. After this, she moved to the University of Glasgow to take up a postdoc in the biomedical field. During this time, she developed an interest in biotechnology and it's potential to provide sustainable and socially responsible commercial products, energy and new drugs. Many of these technologies exploit the immense metabolic capability of microbes that exist and thrive in diverse communities in nature. To take this forward she joined the School of Engineering at Glasgow as a postdoc within a leading group that was innovating water engineering by developing molecular microbiology and genomics tools to investigate microbial communities that underpin many environmental engineering processes and the potential for converting these into environmental biotechnologies.

Dr Ross McTeir Culloch

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I was awarded a pass with distinction in my MSc. in Marine Mammal Science in 2005, from the University of Wales, Bangor. I worked as a research assistant for 2 years before successfully undertaking a PhD at Durham University. I have over 13 year's experience conducting research on marine mammals, working across several sectors including eco-tourism, oil and gas and renewable energy. I have, for the most part, worked in the UK and Ireland, but I have also conducted fieldwork at sites in Trinidad and Pakistan. Since completing my PhD I worked as a post-doctoral research assistant/research fellow at St Andrews University, University College Cork and Queen's University Belfast. I have recently moved to Marine Scotland Science, where my current post involves active research and providing advice to our licensing and operations team, most often on underwater noise and/or collision risk. More broadly, I continue to enjoy working on multi-faceted projects with a strong emphasis on capacity building and knowledge transfer as well as projects working across schools and disciplines. My most recent research has involved working with ecologists and engineers to help address knowledge gaps surrounding collision risk between marine mammals and tidal turbines, which is a major consenting issue for the industry. This work has been published in PLOS ONE and is currently being further developed as part of a collaboration between Marine Scotland Science and Queen's University Belfast.

Dr Simone Dimartino

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Dr Dimartino is a Lecturer at the Institute for Bioengineering at the University of Edinburgh, UK. He received his PhD from the University of Bologna (2009) followed by a PostDoc at the University of Canterbury (New Zealand).

Dr Dimartino interests lie in the application of additive manufacturing (3D printing) technology into chemical and biochemical engineering. He was the first in the world to conceive and propose the concept of 3D printing of highly ordered porous structures. This idea was demonstrated in 2014, with the first 3D printed porous beds with applications in chromatography (J. Chromatography A, 1333, 18-24). Yet, this same concept idea can be employed in any operation based on fluid-solid contacting, such as catalysis, drug delivery, absorption, adsorption, filtration, etc.

The possibility to 3D print and control the structure of the porous bed at the microscale, as opposite to random porous media, opens up the opportunity to unravel fundamental questions on fluid-flow, mass transport mechanisms and kinetic phenomena. In turn, their understanding helps direct efforts in applied research, e.g. to determine the appropriate morphology of the porous bed as well as apposite operating conditions for certain fluid-solid contacting operations.

Dr. Dimartino's research group is currently focusing on the development of new 3D printable materials and geometries for applications in bioseparations (chromatography), biocatalysis (immobilized cell and enzyme bioreactors) and removal of CO₂ from polluting streams.

The novelty and quality of this research has been recognised with a number of international awards, including 3 best poster awards in 3 continuous years at the PREP conference series, and the Csaba Horvath Young Scientist Award at HPLC 2016.

Dr Arman Eshraghi

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Arman is an Associate Professor of Finance and Accounting at the University of Edinburgh, and has held visiting positions at Manchester Business School and University College London. He holds BEng (Electrical) and MBA with distinction from Sharif University in Tehran, and PhD in Finance from Edinburgh. Prior to academia, Arman was a management consultant for several years in the banking and telecom sectors.

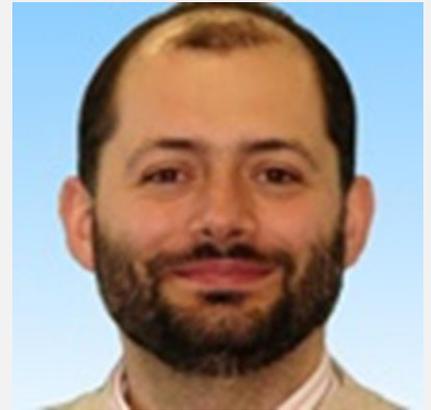
Arman's research spans finance, accounting and psychology. His interests include behavioural finance, interdisciplinary accounting, banking, investment management, corporate governance and fintech. Arman has published in top academic journals in both finance and accounting. His research is featured in the Financial Times, Washington Post, Harvard Business Review, Forbes and Bloomberg among others, and has contributed to handbooks published by Cambridge University Press, Wiley, Springer and Routledge.

His work has been recognised by the EFMD Outstanding Doctoral Research Award, the Emerald Award for Research Excellence, the European Financial Group Young Scholar Research Award, several best paper commendations, and more recently by the University of Edinburgh Sustained Excellence Award and nomination for the Scottish Financial Enterprise Rising Star Award. Arman has been invited to speak at the Federal Reserve Bank in New York, the Centre for European Economic Research in Mannheim, the CFA Institute in London, the National Institute of Securities Markets in Mumbai, and the German Society of Investment Professionals in Frankfurt.

Arman's current and past teaching include Behavioural Finance, Equity Valuation, Investment Management, Psychology of Investing and Corporate Finance at MSc and MBA/EMBA levels. Arman also has an active interest in executive education and public engagement, and has taught a range of executive modules in Edinburgh, Manchester and Mumbai. He has designed a two-day masterclass on Advances in Behavioural Finance which has been delivered in the UK and overseas to a number of British, Indian and Chinese firms.

Dr Michele Faucci Giannelli

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I am a particle physicist working on the ATLAS experiment at the CERN Large Hadron Collider. I graduated at the University of Pisa in 2005 and completed my PhD at Royal Holloway University in 2008. After a post-doc of 18 months in France, I changed career and worked for two IT companies as software developer and later as team leader and project manager. During this experience outside academia I had the opportunity to improve my technical and managerial skills and to acquire several competences in finance and oil industry.

In 2014, I won an EU Marie Curie Fellowship and I was able to resume my academic career in particle physics by joining the ATLAS experiment. Since then, I played a significant role in several publications on the Higgs boson and the top quark, including one proposed and led by me. I also contributed to the running of the experiment by developing several software applications in the trigger and software groups. Currently, I am a senior post-doc in the ATLAS Edinburgh group. My main scientific responsibility in ATLAS is the management of the top pair cross-section group in which I am coordinating the work of almost 100 researchers.

Finally, I am the co-writer and co-PI of the EU ITN "INSIGHT"; the goal of the network is to develop new Machine Learning techniques for particle physics and to apply them to problems in other fields. Given my experience in fraud detection in financial transaction, I will lead this research theme in the network.

Dr Francesco Fioranelli

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Francesco graduated in Telecommunication Engineering (summa cum laude) at the Università Politecnica delle Marche, Ancona, Italy for his Bachelor (2007) and Master (2010) degrees. He received his PhD on through-wall radar imaging at Durham University (UK) in January 2014, and worked as a Research Associate on multistatic radar with Prof Hugh Griffiths at University College London between February 2014 and March 2016. He then joined the University of Glasgow in April 2016 as a Lecturer in the Communication, Sensing and Imaging research group, where he leads the activity in radar sensing (currently 5 PhD students and 1 RA). His research interests include development and signal processing for various radar applications, in particular machine learning for automatic target classification (human signatures for healthcare and security, detection and recognition of drones and UAVs, automotive radar, through-wall radar, wind farm and sea clutter characterisation and mitigation).

Francesco is also a Lecturer in the Glasgow College UESTC, the double-degree programme between the University of Glasgow and the University of Electronic Science and Technology of China (UESTC) in Chengdu.

Francesco is a member of the IEEE and IET, Chartered Engineer (CEng), associate member of the EPSRC Peer Review College, and a reviewer for several academic journals including IET Radar, Sonar & Navigation, IEEE Transactions on Aerospace and Electronic Systems, IEEE Sensors, IEEE Transactions on Geoscience and Remote Sensing.

Dr Douglas Gibson

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Dr Douglas Gibson is a postdoctoral research fellow in the MRC Centre for Inflammation Research at the University of Edinburgh. His research is focussed on determining the impact of local steroid signalling in endometrial function demonstrating novel roles for intracrine estrogen and androgen signalling in fertility. These studies offer insights into the regulation of stromal differentiation (decidualisation), immune cell function and vascular remodelling. He is the recipient of numerous awards including the Society for Reproduction and Fertility Postdoctoral Scientist and the SRI-Pfizer President's Presenter's Award. He is Scientific editor of the Royal College of Obstetrics and Gynaecology academic update and a member of The Endocrinologist editorial board. He is an elected council member for the Society for Reproduction and Fertility, an associate faculty member of F1000 and Chair of the Queen's Medical Research Institute Postdoctoral Society.

Dr Matthew Hannon

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Matthew works as Chancellor's Fellow of Technology and Innovation at the University of Strathclyde's Business School. His research examines the policy and market conditions necessary to accelerate low-carbon energy technology and business model innovation, with a special focus on offshore renewable energy.

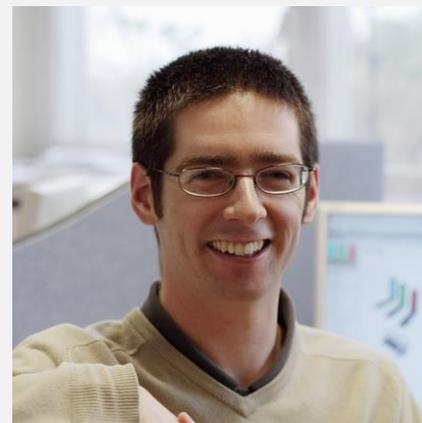
He has extensive experience of generating lasting impact from his research across the energy sector, providing expert advice to the Department for Business, Energy, Innovation and Skills, European Commission and Ofgem on a high priority energy policy issues, as well as acting as a lead author for World Energy Council's World Energy Resources 2016 report. He also leads the Scottish Power Iberdrola Entrepreneurial Challenge at Strathclyde aimed at supporting innovative university energy spin-off companies.

Matthew has an excellent research track record, publishing in Financial Times 50' ranked journals and receiving a best paper award at the 2016 World Energy Congress in Istanbul. He is a co-investigator for the UK Energy Research Centre's community energy finance project, a visiting researcher at the Centre for Environmental Policy within Imperial College London, a member of the International Association of Energy Economics and a fellow of the Higher Education Academy.

Prior to joining Strathclyde he worked at Imperial College's Centre for Environmental Policy (2012-2016) examining the effectiveness of energy innovation policies both in the UK and overseas (e.g. China, Finland). Prior to this he completed his PhD at the Sustainability Research Institute (SRI) at the University of Leeds (2009-2012), examining the role that business model innovation plays in driving a low-carbon energy transition.

Dr Gordon Hedley

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Gordon obtained his MSci degree in Physics & Astronomy from the University of Durham, U.K. in 2005. He was then awarded a PhD in the ultrafast photophysics of iridium complexes under the supervision of Prof. Ifor Samuel at the University of St Andrews, U.K. in 2010. Gordon then worked as a postdoctoral researcher at the Organic Semiconductor Centre at the University of St Andrews from 2010 until 2015, where he investigated the ultrafast photophysics and nanoscale morphology of materials used in organic solar cells. In 2015 Gordon moved to work with Prof. John Lupton at the University of Regensburg, Germany, where he studied the single molecule spectroscopy of organic semiconductors using fluorescence microscopy, including developing new techniques to understand excitonic processes using photon statistics. At the end of 2017 Gordon established his own research group in the School of Chemistry at the University of Glasgow, where he will pursue advanced microscopy and photon statistics techniques to understand the fundamental light emission processes in organic semiconductors that are commonly used in organic light emitting diodes and organic solar cells.

His work has relevance across multiple domains, from fundamental science through to applied industrial research, as well as across scientific disciplines including biology, physics and chemistry.

Dr Chris Henstridge

Centre for Discovery Brain Sciences

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Alterations in the connections between brain cells (synapses) feature in many neurological conditions and this has been a central focus throughout my postgraduate research. I spent my first postdoctoral position in Budapest, assessing the nanoscale distribution of synaptic proteins in a mouse model of Fragile X Syndrome, funded by an EMBO long-term fellowship. I then moved to the lab of Prof. Tara Spires-Jones in 2014 and in 2016 was awarded a 3yr project grant from MND Scotland as lead-applicant. I apply high-resolution imaging techniques such as electron microscopy and array tomography, to examine the structure and function of synapses in healthy and diseased brain. Since arriving in 2014 I have helped build the world's first brain bank of human tissue prepared for the array tomography technique. My projects are highly interdisciplinary, involving collaboration with colleagues in psychology, neuropathology, neuroimaging, and genetics both within the University of Edinburgh and worldwide. I'm also a member of numerous early career societies and actively involved in many diverse outreach activities.

Dr Aruna Ivaturi

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Dr Aruna Ivaturi is EPSRC Early Career Fellow, Chancellors' Fellow and Lecturer at Department of Pure and Applied Chemistry at University of Strathclyde. Her principal research interests lie in the synthesis of nanomaterials, development, fabrication and characterisation of devices based on them for energy, environment and health care sectors. She has made important scientific and technological contributions - for example, switchable coatings for energy saving windows, materials and devices for sensing technologies, solar energy conversion and solar water remediation. Over the last eight years her main research focus has been in the development of novel materials and devices for solar energy conversion especially the emerging new PV technologies. Recently, she has been awarded the EPSRC Fellowship to add new dimensionality of "Elasticity" to the Perovskite solar cell research in the UK. Her group is presently developing elastic solar cells (for EPSRC funded project, "Highly Efficient Elastic Perovskite Solar Cells") and sensors for wearable electronics (for RAE funded project "Solar Powered Wearable Wireless Sensors for Monitoring Gestational Diabetes Mellitus") and novel photocatalysts (for UKIERI funded project, "An advanced integrated process for the treatment of sewage plant effluent using bio-based antimicrobial metal biosorbents and photocatalytic nanocomposite materials").

Dr Melanie Jimenez

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Melanie is an EPSRC research fellow with a strong interest in medical and environmental diagnostics. She has engineered devices for characterizing, sorting and purifying a wide range of biological particles, from waterborne pathogens to stem cells, using microfluidic technologies. Her current research aims to tackle the challenge of rapid diagnosis by developing a suite of new nano- and micro technologies capable of isolating pathogens from complex clinical samples (e.g. blood) to promote the use of advanced detection and characterisation assays. The overarching aim of her work is to develop new medical diagnostic tools to improve patient outcomes through targeted treatment and reduce antimicrobial resistance.

Melanie also has a passion for art and science communication which has resulted in a wide range of hands-on activities and videos she produced for engagement. The significance of her engagement activities resulted in her being the recipient of the Wellcome Trust Frontiers Innovator Award and the University of Glasgow Engaged Researcher of the Year (2017).

Dr Laura Kalnins

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I am a Royal Society of Edinburgh Independent Research Fellow in the School of GeoSciences at the University of Edinburgh. I am a geophysicist and mathematical geoscientist; my research focuses on understanding how the lithosphere, the rigid outer layer of the Earth, behaves, and how it interacts with the convecting mantle underneath it and things we see at the surface, such as volcanism and changing landscapes. Another common thread that runs through almost all my research is method development, from big projects designed around this to smaller things that arose during data-driven projects, like a new method for measuring lava volumes on Santorini or for detecting evidence of seafloor spreading under 5-10 km of sediment. Since my DPhil, the majority of my work has focused on the oceans, and I have spent over six months at sea in the Indian Ocean, Pacific Ocean, and Tasman Sea.

I obtained my BSc in Geology and MSc in Geophysics from Caltech, both in 2006, before doing my DPhil at Oxford on how the strength of the lithosphere varies across the world's oceans, and how that links in with processes like volcanism and earthquakes. I then stayed at Oxford as postdoctoral researcher working on projects that included developing a machine learning algorithm to identify underwater volcanoes (mostly extinct, but no, we don't know where most of them are). After leaving Oxford, I spent three years at Durham University as a lecturer in geodynamics before joining the University of Edinburgh in October 2016.

Dr Carolin Kosiol

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Dr Carolin Kosiol is a new Lecturer in Bioinformatics at University of St Andrews. She works on problems at the intersection of computer science, maths and evolutionary biology. In particular, she wants to understand how natural selection has shaped the genomes of great apes and how fruit flies can adapt to environmental changes in a few dozen generations. Carolin has studied maths and physics at the University of Mainz in Germany, before doing a Masters in High Performance Computing (MSc, University of Dublin, Trinity College) and attending graduate school in Bioinformatics (PhD, University of Cambridge and EMBL- European Bioinformatics Institute). She did a short postdoc at Cornell University during which she got involved in International Genome Analysis Consortia of Rhesus Macaque and Orang-utan. As a Young Group Leader at the Institute of Population Genetics (Vetmeduni Vienna) she has developed models that bridge methods for different species (phylogeny) and for individuals of the same species (population genetics) that offer a great opportunity to study speciation and the evolutionary history of populations. At St Andrews she continues to work on big data from genome sequencing, and she very much enjoys interacting with experimentalists on data sets that pose ever new challenges her models.

Dr Marian Krawczyk

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I am a medical anthropologist and Lord Kelvin Adam Smith Fellow in the School of Interdisciplinary Studies and End of Life Studies Group at the University of Glasgow. As an emerging scholar, I previously held several post-doctoral positions in partnership with Trinity Western University (2017, Canada), The Centre for Health Evaluation and Outcome Sciences (2016, Canada), and The Canadian Frailty Network. My dissertation was an ethnographic study of acute hospital palliative care exploring how specialists, patients and family members collectively negotiated end of life care decisions within increasingly complex health systems. My work was subsequently nominated for the Governor General's Gold Medal for Academic Excellence (Simon Fraser University, Canada, 2015).

I continue to conduct ethnographic research on end of life care in hospital settings. My broader research interests include: 1) using social science theorizing to inform clinical practice change and the history of medicine, 2) how ideas of appropriate end of life care travel between local hospital settings and global health infrastructures, and 3) applying an 'anthropology of microbes' to understand complex suffering near end of life. I am particularly interested in developing interdisciplinary mixed-methods approaches and collaborations to explore these topics.

Dr Nancy Lombard

Department of Social Sciences, Media and
Journalism

Glasgow Caledonian University

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The main areas of my research are childhood, gender, violence against women including domestic abuse and feminist methodology. I have been a committed activist for equality since being a teenager. My previous research looked at what primary school children aged 11 and 12 think about men's violence against women. The findings from this were widely covered in the media and have been used by the Scottish Parliament as evidence for preventive education and also form the basis of my knowledge exchange work (focusing upon gender awareness training for primary school teachers and other educational practitioners). I continue to work in this area with younger children aged between 5 and 10 looking at their understandings of violence and the permanence of gender stereotypes.

I was the only academic on the Scottish Government's strategic board to develop the Equally Safe action plan to inform the new domestic abuse legislation and I was recently asked to be part of the First Minister's Gender Equality Advisory Circle Group. I act as a consultant for a number of third sector organisations.

I have published widely including journal articles, a monograph and have edited two volumes on violence and domestic abuse. I have conducted literature reviews for the Scottish Government looking at violence against women and also the role of football in domestic abuse. The latter led to funding for a feasibility project working with stakeholders to investigate the alleged links between football and domestic abuse in Scotland and England.

I currently supervise 4 PhD students who work on areas of Gender and Toys, Gender and violence in Sudan, Gender and Family Friendly Policies at Work and FGM in Scotland.

I live in Glasgow with my partner and our five children. I love to sew, grow things, dance (badly) and drink far too much tea.

Dr Areti Manataki

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Areti is a Teaching and Research Fellow in the Centre for Medical Informatics in the University of Edinburgh. Her research expertise is in the area of applied artificial intelligence, with a focus on healthcare processes. In particular, she employs AI methods to model, verify, simulate, analyse and improve complex healthcare workflows, such as care pathways.

In addition to research, Areti has extensive teaching experience and she is currently leading a range of introductory data science courses as part of the Edinburgh Data Science Initiative. This includes a new MOOC in Data Science in Stratified Healthcare and Precision Medicine, offered on Coursera.

She is also a science communication enthusiast, and she has lead several public engagement events for a variety of audiences. For this work, she was awarded a Head of College Outreach Prize in the College of Science and Engineering in 2016.

Areti was “academically raised” in the School of Informatics, in the University of Edinburgh, where she completed her PhD in 2012 and worked until she joined the Centre for Medical Informatics in 2017. During this time, she worked as a Research Associate in the WorkflowFM project and as a Senior Researcher in the SociaM project, which focused on the theory and practice of social machines.

Dr Anna McFarlane

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Anna McFarlane is a British Academy Postdoctoral Fellow at the University of Glasgow with a project entitled “Products of Conception: Science Fiction and Pregnancy, 1968-2015”, which takes a medical humanities approach to explore traumatic pregnancies and how these are expressed in literature and in women’s non-fiction writing about their experiences. This is contrasted with the discourse used in medical advice literature and self-help books. She has worked on the Wellcome Trust-funded Science Fiction and the Medical Humanities project and has researched Naomi Mitchison’s science fiction in a project funded by a Wellcome Trust Small Grant Award. She holds a PhD from the University of St Andrews and her thesis concerned the role of gestalt psychology in William Gibson’s science fiction novels. She is the editor of Adam Roberts: Critical Essays (Gylphi, 2016), and blog and reviews editor for the journal *BMJ Medical Humanities*.

Dr Kitty Meeks

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I joined the University of Glasgow in 2014, as a Lecturer in the School of Mathematics and Statistics; I moved to the School of Computing Science in 2016, where I hold a Royal Society of Edinburgh Personal Research Fellowship.

I gained my MMath in Mathematics and Computer Science (2009) and DPhil in Mathematics (2013) from the University of Oxford, and from 2012 to 2014 I worked as a Postdoctoral Research Assistant at Queen Mary University of London.

My fellowship project is entitled 'Exploiting Realistic Graph Structure': the goal is to find and exploit mathematical structure in large, real-world network datasets so that we can extract information from these more efficiently. In the course of this work, I am looking at applications ranging from modelling the spread of disease in Scottish livestock, through the evaluation of queries on large databases, to the search for new proteins with medicinal properties.

Dr Ify Mordi

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Dr Ify Mordi is an NHS Education for Scotland/Chief Scientist Office Clinical Lecturer in Cardiology at the University of Dundee as well as a clinical Cardiology Specialty Registrar. Dr Mordi was awarded an MD from the University of Glasgow in 2015 for his thesis "The Clinical Utility of Cardiovascular Magnetic Resonance" which was awarded the Bellahouston Medal for best doctoral thesis within Medicine in 2015.

Following this he moved to the University of Dundee to pursue clinical academic training under the Scottish Clinical Research Excellence Development Scheme (SCREDS).

His current research focuses on application of imaging, genetics, "big data" and biomarkers for use in stratified, personalised medicine within cardiology, particularly in the field of heart failure.

As well as his competitively awarded NES/CSO Lectureship, he has also gained national recognition at the Scottish and British Cardiovascular Society Meetings.

Dr Anna Pearce

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Anna is a social epidemiologist with a background in social sciences, having completed a BSc in Geography & Population Studies and an MSc in Demography & Health. Her research aims to understand why children from less advantaged backgrounds have worse health than their more advantaged peers, and what might be done to prevent this. Between 2004 and 2017 she was based at the UCL Great Ormond Street Hospital Institute of Child Health, carrying out a range of research related to social inequalities in children's health, including completion of a PhD in Child Public Health and a Medical Research Council population health scientist fellowship.

In 2017 Anna was awarded a Wellcome Trust University Award in Humanities and Social Science, allowing her to establish a new base at the MRC/CSO Social and Public Health Sciences Unit, University of Glasgow. Over the next five years she will draw upon the complementary powers of linked Scottish administrative data and cohort studies (such as Growing Up in Scotland) to examine three questions crucial to the reduction of child health inequalities: What factors lie on the causal pathway between socio-economic circumstances and children's health? Can we better predict which population sub-groups are most likely to benefit from additional support? To what extent might early years' interventions, if rolled out under different scenarios of effectiveness, eligibility and uptake, reduce child health inequalities?

Anna is passionate about public engagement, having collaborated for many years with the National Children's Bureau to gain young people's and parents' views of her research and to disseminate findings to the public. She is also Honorary Treasurer for the Society for Social Medicine, the UK's leading academic society in population health.

Dr Marc Reid

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Marc was born and raised in Glasgow. He completed his MSc in Chemistry at the University of Strathclyde in 2011. In 2015, he completed his Carnegie Trust-sponsored PhD in Chemistry from the same institution. From 2015-16, Marc was a postdoctoral research associate at the University of Edinburgh. During that time, he was inducted into the SciFinder Future Leaders in Chemistry program.

Most recently, Marc won the prestigious Leverhulme Trust Early Career Fellowship and rejoined the Dept. of Pure & Applied Chemistry at Strathclyde to begin his independent career. Marc's current position is supported by GlaxoSmithKline, and he is thus the first Strathclyde-GSK Early Career Academic. His research interests centre on using various sources of data and developing new technologies to understand processes relevant to making high-value chemicals for industry.

Dr Amy Rogers

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Amy grew up in Dundee and then moved to Aberdeen to study medicine. She graduated in 2001 and then trained to be a GP. After working as a GP in Dundee and Angus for several years, Amy decided to change career path and follow her long-standing interest in clinical research. She now works as a Clinical Research Fellow with MEMO at the University of Dundee where she works on large scale drug safety and effectiveness trials. Her current research focuses on using technology to develop new ways to produce evidence on the safety and effectiveness of commonly used medicines.

Dr Silvia Soares

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I am a veterinarian. My degree was taken at the University of Veterinary Medicine in Lisbon. I also took a master in Aquaculture and Fisheries at the University of Algarve (Portugal) and a PhD in epidemiology at Stirling University.

My professional career started as a veterinarian in the poultry industry in Portugal. After this period, I looked for new working challenges, which led me to the aquatic industry.

I have been working for 4 years as part of the Disease Diagnostic group within the Aquaculture and Fish Health (AFH) programme, Marine Scotland Science (MSS). I am currently the leading pathologist for crustacean, mollusc and finfish disease diagnostic cases from the Scottish aquaculture industry or from wild fishery interests. I use histopathology as the primary diagnostic tool to detect notifiable and emerging diseases within Scottish wild and farmed crustacean, mollusc and finfish populations. I also represent MSS at the annual mollusc disease European Union National Reference Laboratory meeting. This involves collating, submitting and presenting mollusc epidemiological data. I am the Deputy Named Veterinarian Surgeon (NVS) in the Scientific Procedure Establishment of Marine Scotland to ensure that the welfare of scientific animals is not compromised under the Animals (Scientific Procedures) Act 1986.

Although I already have a position of leadership and decision making, I am very thrilled to develop my leadership skillset as a scientist and widen my scientific network to be able to participate and lead research projects that will help the aquaculture industry to sustainably expand and economically support the remote rural communities in Scotland.

Dr Enrico Tubaldi

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Dr Enrico Tubaldi joined the Department of Civil and Environmental Engineering at University of Strathclyde in October 2017 as Lecturer in Structural Engineering. Before joining University of Strathclyde, he was a Marie Curie Research Fellow at the Department of Civil and Environmental Engineering of Imperial College London (UK), with a two-years research project entitled “Flood Risk Assessment and mitigation for Masonry Arch Bridges (FRAMAB, Project ID: 657007)”. He received his MEng (Laurea Specialistica) in Civil Engineering in 2006 and his Ph.D. in Structure and Infrastructure Engineering in 2010 from the Polytechnic University of Marche (Ancona, Italy). Before joining Imperial College, Dr Tubaldi conducted doctoral research at the Polytechnic University of Marche, working under the supervision of Prof. Lugino Dezi and Prof. Andrea Dall’Asta, at Louisiana State University, under the supervision Prof. of Michele Barbato, and at the Institute of Risk and Uncertainty of Liverpool University. He has also been Lecturer of the Structural Analysis and Design course at the School of Architecture and Design of University of Camerino for six years. He is author or co-author of more than 70 technical publications, including 31 peer reviewed articles published in renowned archival journals, one book chapter, and many papers presented in national and international conferences.

His research is at the junction of two main branches of Structural Engineering, computational structural mechanics and probabilistic analysis of structures and infrastructures. This research aims at reaching a better understanding of the physical behaviour of building and bridge structures by also taking into account the stochastic nature of the loading environment and of the structural properties. This effort can lead to safer, more economic and more rational design procedures and contribute to make the world safer from natural hazards such as earthquakes and floods.

Dr Evi Viza

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Dr Evi Viza is a Mechanical and Manufacturing Engineer, a Chartered Quality Professional and an EFQM (European Foundation for Quality Management) assessor. She is also a committee member of the local Scottish committee of the Institute of Engineering and Technology. She started her career in Quality Management in the Fraunhofer Research Institute in Stuttgart. After that, she worked with Hoover in Scotland before she moved to the public sector. Public and community engagement was integral part of her public sector role where she led the Equalities and Diversity agenda for the Housing department and facilitated public engagement workshops. She joined UWS as a Lecturer in Engineering Management and then moved to the postgraduate courses of Quality and Project Management.

She is member of a number of multidisciplinary research teams working with artists, film makers, gamers and psychologists. One of them includes “A car for women - and other stories: Engineering via storytelling” funded by the Ingenious Award led by Prof Katherine Kirk, UWS (<http://qeprize.org/createthefuture/car-women-stories/>) .

Viza has been awarded two grants from the Royal Academy for Engineering, one for Public Engagement, Ingenious Award and one as part of the Global Challenges Research Fund (seed funding) for Building Manufacturing Capacity for the craft women in Uganda.

Her research areas are in engineering education, gender balance in STEM and circular economy.

Dr Helen Yaffe

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Dr Helen Yaffe is born and bred in London. As a teenager in the mid-1990s, she went to live in Cuba, sparking her interest in Cuban history and development. On return, she moved to Bristol for her undergraduate degree, achieving a first class distinction. After a couple of years in journalism, Helen returned to academia. In the Economic History Department of the London School of Economics (LSE) she completed her MSc and PhD.

Her doctorate was on the least known aspect of one of the 20th century's best-known icons: Ernesto "Che" Guevara. It analysed his economic work as a member of Cuba's revolutionary government, and his contribution to socialist political economy debates. Published as *Che Guevara: the Economics of Revolution* (Palgrave Macmillan), the book has been translated into several languages. Helen has continued to follow developments on the island, researching Cuba's economic reforms and rapprochement with the United States, and the international drivers behind both these processes. She often appears on the mainstream media to discuss these developments.

At LSE and the University College London, Helen taught on Latin America history/development, the history of economics (& how theories change), and the political economy of late development. At the University of Leicester, she collaborated with human geographer, Dr Gavin Brown, on research into a section of the anti-apartheid movement in Britain. Their co-authored book, *Youth Activism and Solidarity: the non-stop picket against apartheid*, was published in 2018.

Helen moved to the University of Glasgow in January 2018 to take up a position as lecturer in Economic and Social History. She will be teaching on Latin American development. She is also finalising a book about Cuban development for Yale University Press. She is fluent in Spanish.

Dr Ingrid Young

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I am a Chancellor's Fellow in the Centre for Biomedicine, Self and Society, based in the Usher Institute at the University of Edinburgh. I have an interdisciplinary background in history and sociology, and a strong interest in gender, sexual health and rights, migration and wider inequalities. My qualitative research sits the interface between biomedicine, public health and society, with a focus on emerging biotechnologies in HIV and sexual health. I am particularly interested in the translation of new health technologies within and across clinics and communities.

Since moving to Scotland in 2011, I have researched the use of pharmaceuticals for prevention, looking specifically at pre-exposure prophylaxis (PrEP) and treatment as prevention (TasP) approaches. I recently completed a 3-year CSO Fellowship (2014 – 2017) on Developing HIV Literacy. Through this work, I collaborated with health and community practitioners and other stakeholders (including NHS Greater Glasgow & Clyde, HIV Scotland, Terrence Higgins Trust, Waverly Care, aidsmap) to understand and support HIV literacy in the context of new and emerging HIV prevention technologies.

I recently started "Sex, Drugs and Activism: Negotiating biological citizenship and pharmaceutical prevention" funded by a Wellcome Trust Seed Award. This research project will look at PrEP in the UK as a case study to understand the role of community and clinical activism, sexual citizenship, and the use of pharmaceuticals for prevention in sexual health. From May, I will be co-chair of the Scottish IReSH (Interdisciplinary Research in Sexual Health) Network steering committee.

Prior to joining the University of Edinburgh, I worked at the Institute of Development Studies (2004 - 2007) and at the University of Glasgow (MRC/CSO Social and Public Health Sciences Unit (2011-2016). I completed my PhD in Sociology at Newcastle University (2011), and my BA and MA in History in Canada.