



6-7 April
2022

Online & In Person



UCL
Open
Science
Conference

UCL Library, Culture, Collections & Open Science

Themes

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Quick Reference Program

6 April / Online: 10:00 – 12.30

- 10:00 – 11:20 What does Open Science mean to me?
- 11:20 – 12:30 Kickstart your research with Open Data and Code

6 April / Online & In Person: 13:30 – 15.30

- 13:30 – 13:45 How does citizen science change us?
- 13:45 – 14:45 Pathways to change
- 14:45 – 15:45 Question Time: How is citizen science changing how political leaders (or policy makers) think?
- 15:45 – 16:00 Closing presentation

7 April / Online: 10:20 – 12.30

- 10:00 – 11:30 UKRI Town Hall
- 11:30 – 12:30 Open Science and the Global South

What does Open Science mean to me?

Here at UCL, the phrase ‘Open Science’ routinely refers to the steps taken to open up the research process to the benefit of the wider research community and beyond. Consequently, members of the UCL community are being actively encouraged to embrace open science practices - and the cultural changes that inevitably follow. Plus, we are subsequently well placed to explore related potential opportunities including greater transparency of the research process, maximising research potential of existing resources and embedding a greater sense of trustworthiness and accountability to your research.

However, it seems the deeper we delve into the concept of Open Science, the more we seek to contextualise this phrase and question what it means to an individual’s working practices.

Panellists:

James Hetherington

Prof James Hetherington is director of UCL’s Advanced Research Computing Centre, our research, innovation and service centre for computational science and digital scholarship. He was previously Director of Research Engineering at the Alan Turing Institute, the UK’s national institute for Data Science and Artificial Intelligence. He is an interdisciplinary computational scientist. In 2020 he was seconded as Chief Data Science Advisor to the Joint Biosecurity Centre during the acute phase of the Covid-19 response.

Sasha Roseneil

Professor Sasha Roseneil is Pro Provost (Equity and Inclusion) and Dean of the Faculty of Social and Historical Sciences at UCL. She is a sociologist and gender studies researcher, and is also trained as a group analyst and psychoanalytic psychotherapist. From 1 August 2022 she will take up a new position as Vice Chancellor of the University of Sussex. Her latest co-authored book, ‘The Tenacity of the Couple-Norm: intimate citizenship regimes in multicultural Europe’ was published by UCL Press in 2020.

Aida Sanchez

Dr Aida Sanchez leads the Research Data Management team at the Centre for Longitudinal Studies (CLS), based at the UCL Social Research Institute. She oversees the data management, metadata production and safe sharing of social survey and linked administrative data from the CLS cohort studies. Aida previously worked as the Senior Data Manager in the Whitehall II Study at UCL. Her academic background includes a PhD in Computational Quantum Chemistry in Spain and working as a postdoctoral fellow at King's College London. She then worked as a Database Programmer in several organizations, including the Institute of Cancer Research and UCL.

Steven Gray

Steven Gray is an Associate Professor (Teaching) in Spatial Computation at the Centre for Advanced Spatial Analysis in the Faculty of the Built Environment. He joined CASA in September 2009 and has worked on various projects by building platforms to meet the demand for powerful simulation tools by social scientists, public and private sector policymakers. His current research interests include large scale data collection and data analysis, Human Computer Interaction, mobile development, accessible web development with a focus on social media, Web based Mapping and Ubiquitous Computing. Steve has been a spatial software developer for the past 5 years, making visualising complex datasets on maps easier. With over 10 years of professional software development under his belt he has built multiple award-winning systems and his work has been featured in various worldwide media outlets (CNN, BBC, etc). In recent years he has specialised on building mobile applications (mainly iOS) and systems that open up the world of data visualisation, mining and analysis to the masses.

Kickstart your research with Open Data and Code

This session will look at some of the approaches you can take to go beyond simply sharing your data and code and instead making it Open and FAIR – Findable, Accessible, Interoperable, and Reusable. Assuming little prior knowledge, we will hear from researchers and research technology professionals about how they approach making research software open source, techniques for openness when dealing with computational research, the role that can be played by Electronic Research Notebooks, and data repositories in the Open Science ecosystem.

Panellists:

Alessandro Felder

Making your computational research open and reproducible

Alessandro completed an MSc in Computational Science and Engineering in his hometown of Zurich. He then moved to London to spend five years (as part of his PhD and PostDoc) in bone research, applying his image analysis and software skills to answer questions in bone-inspired architecture, evolutionary biology and imaging of bone disease. He joined UCL in 2019 as a Research Software Developer, working on a variety of projects loosely related to biomedical imaging.

Anastasis Georgoulas

Opening your code: why and how

Anastasis is a senior research software developer at UCL's Centre for Advanced Research Computing. He has a background in computer science and a PhD from the University of Edinburgh, where he worked on computational modelling and machine learning. Since joining UCL 4 years ago, he has been supporting researchers across the university with software contributions on various projects, as well as providing training to students and staff.

Ralitsa Madsen

How to Open Science with RSpace

Following her PhD in Metabolic and Cardiovascular Disease at the Institute of Metabolic Science, Cambridge, Ralitsa Madsen is now a Sir Henry Wellcome Postdoctoral Fellow at UCL Cancer Institute. Her research passion lies in a quantitative understanding of class IA PI3K signalling, with a particular focus on disease-associated, activating mutations in the p110 α (PIK3CA) catalytic subunit of this kinase. Alongside her research, Ralitsa is an open science advocate, taking part in various grassroots activities aimed at promoting research integrity/reproducibility nationally as well as internationally. In 2019, she wrote a FEBS Commentary, giving her perspective on key issues with current research culture and potential solutions based on the tenets of Open Science. She is currently a member of the UK Reproducibility Network (UKRN) and recently co-authored a Universal Funders Policy together with Prof Chris Chambers

Oliver Duke-Williams

Open data and data repositories

Oliver Duke-Williams is an Associate Professor in Digital Information Studies at the Department of Information Studies, UCL, and is Programme Director for the departments' MA and MSc Digital Humanities programmes.

He is the Census Service Director for UK Data Service, which provides access to census data in various forms from censuses in the UK from 1961 onwards; these are a mixture of open and more restricted data, of widely used and more specialist outputs. He is also part of the senior team at the Centre for Longitudinal Study Information and User Support (CeLSIUS) which facilitates access to the ONS Longitudinal Study, a secure access linked sample of 1% of the population of England and Wales, from 1971 onwards.

Oliver is also an invited member of the Census Methodological Assurance Review Panel, which reports to the National Statistician on the methodological soundness of the 2021 Census, and will also review evidence on whether or not administrative data would provide a suitable alternative to a more traditional 2031 census.

How does citizen science change us?

Exploring the impacts on ‘citizens’, ‘researchers’, ‘policymakers’, and social action

This event aims to explore these gaps by inviting different perspectives on the question “How does citizen science change us?” Discussions will examine how participation in citizen science projects impacts on the different individuals involved - the citizen scientists, academic researchers, community members, policymakers - and ask how impacts on individuals can translate into wider political, societal and organisational transformations.

13:30 - 13:45 **How does citizen science change us**

Opening statement by Professor Rita Campos

13:45 - 14:45 **Pathways to change**

Short, rapid presentations in which researchers and Citizen Scientists reflect on the impacts of Citizen Science in their chosen projects.

14:45 - 15:45 **Question Time: How is citizen science changing how political leaders (or policymakers) think?**

Citizen scientists from Camden and east London interview political leaders/policymakers about how their thinking has been changed by Citizen Science and the implications for wider society.

15:45 - 16:00 **Closing Presentation**

Closing presentation from Dr Saffron Woodcraft

Panellists:

Rita Campos

Opening statement

Rita is a researcher in Science Communication and Science Education at the Centre for Social Studies from the University of Coimbra (CES-UC), and co-coordinator of the outreach program “Ciência Viva at CES” and the Methodologies Series “Wheel of Knowledge”.

She is interested in interdisciplinary approaches and methodologies that enhance the inclusion and participation of the publics, such as participatory science communication, active learning, and public engagement in and with science (citizen science), and the relations between biodiversity and human health, and the interlinks between (natural, social, cultural) systems and (environmental) sustainability. Her current research interests are centred in the development of school-based student-led citizen science projects, promoting effective school-universities collaborations.

Mayssa Jallad

Pathways to change

Mayssa Jallad is a researcher and Citizen Science coordinator at the Institute for Global Prosperity’s RELIEF Centre. Since 2019, she has been training Citizen Scientists to conduct research and propose interventions in several neighbourhoods in Lebanon, including Ras Beirut, El Mina and Mar Mikhael. Mayssa holds a bachelor’s in architecture from the American University of Beirut, and a Masters in Historic Preservation from Columbia University. In addition to her research work, Mayssa is a singer-songwriter and is based in Beirut.

Douglas Booker

Pathways to change

Douglas is a part-time PhD researcher using a combination of natural and social science methods to measure air quality in and around schools. Douglas is interested in opening the black box of air quality knowledge production to understand how air quality science understands, creates, and communicates knowledge. Douglas also runs the National Air Quality Testing Services (NAQTS), a Lancaster Environment Centre collocated business that develops tools and technologies to provide independent, reliable, and holistic air quality information.

Alexandra Albert*Pathways to change*

Dr. Alexandra Albert is a social researcher based across the Thomas Coram Research Institute, in the Social Research Institute at University College London (UCL), and the Extreme Citizen Science (ExCiteS) research group in the Geography Department at UCL. She is currently a post-doctoral research fellow on ActEarly UKPRP, supporting the Healthy Livelihoods, Healthy Learning and Co-production, and Citizen Science themes, comparing approaches in Tower Hamlets and Bradford. Her PhD research completed in 2019, took a critical investigatory approach to the practices and processes of citizen social science – namely how people can be mobilised to engage in conducting social research, and the challenges and opportunities of using the data generated to tackle social issues. Her research interests include citizen science, participatory inventive methods, and public sociology.

Erich Wolff*Pathways to change*

Erich Wolff holds a doctoral degree from Monash University (Australia). He is an Associate Lecturer at the Royal Melbourne Institute of Technology and an affiliated researcher at the Nanyang Technological University (Singapore). He is an interdisciplinary educator and researcher in the field of flood risk management. His research on citizen science in the context of nature-based solutions delves into how communities can be involved in the production of infrastructure and the built environment in the age of Climate Change.

Suraya Miah*Pathways to change*

Suraya Miah comes from a criminal justice background supporting youth in North London. She has a passion for educating people on the lived inequalities of varying communities through the power of research and advocacy. She works for multiple organisations involved in community engagement. For example, she works at Camden Giving as a Communications Officer and Camden's Evolve Service as a Peer Advocate. These employment opportunities, along with her being a student studying Social Work at Middlesex University, have given her the experience of community activism in her local area – Camden. She aspires to better understand research by being a researcher for social life and hopes to continue her involvement in work similar to what she is doing now: working on a prosperity model for Euston with the IGP and actively participating in youth offending and prison work.

David Adesanya*Pathways to change*

Young East Londoner David Adesanya is an athlete and freelance multidisciplinary creator specialising in advocacy through design. This has taken him across the globe, from representing GB in building strategies to meet the UN's Global Goal 16, to developing creative cultural bridges and community resolutions between the East and West in Beijing and Pakistan. He draws from these works but also brings along the stories of cultures so far removed providing an uncanny perspective to reality and hopefully a truth unrecognised.

Regina Rahman*Pathways to change*

Regina Rahman is a community organiser, candidate for local councillor in Barking & Dagenham, proud mother and Citizen Social Scientist. Regina is passionately campaigning for community cohesion, wellbeing for women and children and for special needs children which she only calls 'special'. She credits her training and work as a Citizen Social Scientist in the Institute for Global Prosperity's Citizen Science Academy for helping her to build her confidence. Now, she is striving for positive change in her local community, and finding her voice on a political stage.

Joshua Dickinson*Pathways to change*

Joshua has a level 3 Diploma in Travel and Tourism. He is a volunteer at Southwark Cathedral as a welcomer and is on the Parochial Church Council. In this role, his responsibility is to liaise with other parishes. He was also part of the steering group to plan major building works on the cathedral. He has been a member of The Legacy Youth Voice, and Legacy Youth Board working alongside the London Legacy Development Corporation (LLDC). He has also undertaken work for the Confederation of British Industries (CBI) and FUSE. Currently, he is a member of the Built Environment Access Panel for The Olympic Park.

Pye Nyunt*Pathways to change*

Pye is the Head of Insight & Innovation at the London Borough of Barking & Dagenham and a member of the London Prosperity Board since its inception 5 years ago. He leads an award-winning team of Data Scientists, Behavioural Scientists, and Service Designers that turns data into insight-led action. Pye has overseen two cohorts of citizen scientists in this time supporting LPB and is an advocate of developing hyper-local insight from quantitative and qualitative techniques to influence policy and strategy development. In 2019 Pye was voted as one of the most influential practitioners of data and analytics in the UK and for the past three consecutive years, his team have been shortlisted finalists in the Local Government Chronicle Awards for their innovative applications of data analytics in the council.

Kaitlene Koranteng
Pathways to change

Kaitlene Koranteng is the Co-Chair of the Legacy Youth Board, a facilitator of Hackney Wick Town, and has previously worked as a researcher/designer for the FUSE programme. She is currently the Archivist and Engagement Producer for iniva (Institute of International Visual Arts).

As a part of the Fuse programme, Kaitlene explored community-based solutions for youth employability. She employed ethnographic and design-centred methodologies, to design a solution that was highly desirable for both young people and local businesses in East London.

In her practice as a community facilitator and archivist, she aims to amplify the voices of marginalised groups.

Saffron Woodcraft
Closing presentation

TBC...

UKRI Town Hall

The new UKRI Open Access policy has dominated discussions of the future of Open Access in the last year. This session proposes to allow the audience free rein to openly discuss the new policy with key members of the team at UKRI. After a brief presentation of the policy and guidance as it stands, the audience will be invited to pose their questions in an open forum.

Host: **David Price**

Panellists:

Duncan Wingham

Duncan received a B.Sc. from the University of Leeds in 1979, and a Ph.D from the University of Bath in 1984, both in physics. He joined University College London in 1986, where he held lecturing posts at the Mullard Space Science Laboratory and the Department of Electronic and Electrical Engineering.

He was appointed as a Chair in the Department of Space and Climate Physics in 1996 and was Head of the Department of Earth Sciences at UCL from 2005 to 2010.

He was founder and Director of the NERC Centre for Polar Observation and Modelling (CPOM) from 2000 to 2005 which, among other things,

discovered the widespread mass loss from the West Antarctic Ice Sheet and its origin in accelerated ocean melting.

He was Chairman of the Science and Innovation Board of NERC and, since 2000, the Lead Investigator of the ESA CryoSat and CryoSat-2 satellite missions.

Duncan became Chief Executive of the Natural Environment Research Council on 1st January 2012 and then Executive Chair on 1st April 2018, when the Natural Environment Research Council became part of UK Research and Innovation.

Duncan was knighted in the New Year Honours 2020.

Dr Rachel Bruce

Rachel is Head of Open Research at UK Research and Innovation (UKRI). She has worked in research policy and digital scholarship across national organisations including for the former Higher Education Funding Council, Jisc and the Department of Business Energy and Industrial Strategy (BEIS).

Rachel has overseen national and international programmes that develop digital infrastructure for information and scholarship that have resulted in long-term sustainable services, and developed UK research data policy including an open research data concordat.

Rachel is an expert in open science and has been an expert adviser to the European Commission and was the UK representative on the European Open Science Cloud Governance Board and has been engaged in the Research Data Alliance from its inception.

Currently Rachel is leading the UKRI Open Access review that has resulted in a single policy across the UKRI Councils including Innovate UK and Research England as well as leading the wider UKRI open research strategy, including development of FAIR data capability for the UK, international standards and responsible research assessment to reward open research.

Margot Finn

Margot Finn is Professor of Modern British History at UCL. She has extensive editorial experience both with conventional subscription-journal and monograph publication publishing models (particularly with Cambridge University Press and the University of Chicago Press) and with open access publishing (chiefly with UCL Press and the Royal Historical Society/University of London Press).

Her co-edited *The East India Company at Home, 1757-1857* (UCLP, 2018) has been downloaded open access in whole or part over 90,000 times since publication. A sceptical advocate of open access, she has contributed to debates on the funding and impact of OA in Humanities and Social Sciences in particular, taking an evidence-based approach. Examples of this genre of engagement include her 2019 Royal Historical Society guidance paper, 'Plan S and the History Journal Landscape' (accessible from <https://royalhistsoc.org/policy/publication-open-access/plan-s-and-history-journals/>). Finn's current work focuses on British colonialism in India and its impact in Britain, but her first published research was on sequencing and structure mapping of RNA. She accordingly takes an especial interest in discipline-based and sector-wide issues relating to OA.

She is a member both of the UCL Press executive committee and UCL's Open Science committee.

Jon Butterworth

Jon Butterworth is a Professor of Physics at University College London, who has worked on energy-frontier particle physics experiments at DESY in Hamburg and, currently, at CERN, Geneva. He was involved in the discovery of the Higgs boson in 2012, and was awarded the Chadwick Medal of the Institute of Physics in 2013 for his pioneering experimental and phenomenological work in high energy particle physics, especially in the understanding of hadronic jets. He has written two popular books on particle physics and has appeared on BBC Horizon and Radio 4's "Infinite Monkey Cage". He is a member of STFC Council and UCL Council, and is Scientific Advisor to the UK delegation to CERN Council.

Open Science and the Global South

Open Access publishing has been broadly embraced as a solution to the issue of paywalls which are often barriers to accessing research articles and, therefore, barriers to research itself. Open Access publishing removes the cost for those that may wish to read an article, but the publication process must still be paid for. Finding sustainable ways of doing this is a challenge, especially for institutions based in the global south where budgets may be more limited.

Panellists:

Katie Foxall

ecancer: a sustainable open access publication model for authors and readers from underserved settings

This talk will discuss the work of the online platform ecancer and its open access journal. ecancer is a UK based charity with a mission to raise the standards of care for cancer patients across the world through education. ecancer's open access journal, ecancermedicalsecience, only accepts submissions which feature at least one author from a Lower and Middle Income Country (LMIC), or which have a significant impact on under-resourced settings

Katie Foxall is head of the publishing department at ecancer. Katie spent twelve years at the Institute of Physics Publishing (IOPP) and has developed her open access advocacy work at ecancer over the past eleven years with the aim of supporting marginalised researchers.

Wouter Schallier

Open Science: not just Open Access on steroids

For more than two decades, free and Open Access to scientific journals has been at the centre of our attention. Latin America has a long tradition of Open Access. However, we need to go further and put policies, mechanisms and infrastructures in place, on an institutional, national and regional level, to share any kind of scientific output, and particularly research data, in a trustworthy and secure environment. Open Science is not just Open Access on steroids, it's a paradigm shift. Research institutions need to prepare for this, or they risk to lose control (again) over their main intellectual assets.

Moreover, there will be no innovation in scholarly communication without diversity and inclusion. One of the main contributions of the UNESCO Recommendation on Open Science is that it points at Open Science as the road towards more diverse and inclusive scholarly communication. Researchers who produce quality research should get the same opportunities and visibility independently of which country and which institution they are from. Hence also the importance of multilingualism; there's no reason why quality science cannot be communicated in other languages other than English.

Wouter Schallier is Chief of the Hernán Santa Cruz Library of UN/ECLAC (United Nations Economic Commission for Latin America and the Caribbean), in Santiago Chile. As Chief of the Hernán Santa Cruz (ECLAC) Library, Wouter Schallier introduced a strategy to radically modernize the services and products of the Library. In 2014, the Hernán Santa Cruz Library launched the ECLAC Digital Repository (<https://repositorio.cepal.org/>), which provides open access to all publications of the Regional Commission, from 1948 until now.

Between 2015 and 2017, Wouter Schallier led the Latin American and Caribbean work packages of the LEARN project (www.learn-rdm.eu) on Research Data Management, financed by the European Commission. The main objective of this project was to support the implementation of data management policies in research institutions in Latin America and the Caribbean.

Wouter Schallier publishes and regularly presents talks on the following topics: Open Access, Open Science, access to information, innovation and scholarly communication.

Sally Rumsey

*Bonfire of the barriers:
Removing obstacles to
research dissemination:*

This talk describes a selection of key barriers to access and to disseminating scholarly articles. Removing these obstacles would simplify processes for researchers and promote control of research dissemination by academia, thereby furthering open scholarship for the benefit of research, researchers and society in general.

Sally Rumsey is an Open Access Expert, currently working for Jisc and supporting cOAlition S. She is the former Head of Scholarly Communications & RDM, Bodleian Libraries, University of Oxford.

Ernesto Priego

Ernesto Priego is a lecturer at the Department of Computer Science and a researcher affiliated to the Centre for Human Computer Interaction Design at City. He is affiliated to the UCL Centre for Digital Humanities. He is the editor-in-chief and co-founder of The Comics Grid Journal of Comics Scholarship, a peer-reviewed open access journal published by the Open Library of Humanities.

