UCL

24 April
2023

Online & In Person

THE CASE FOR SOCIAL JUSTICE

UCL

Open

Science

Conference

UCL Library, Culture, Collections & Open Science

Welcome to our first fully hybrid conference!

Progressing year on year, our conference committee keeps challenging itself to grow and make the conference better and better and fully believe that this is our best programme yet!

We really appreciate you joining us this year and invite you all to tell us how you found our event to help us improve yet again for next year by giving us your *feedback!*

SESSIONS

Programme Schedule

09.30-10.00   **Registration and coffee**

10:00 – 11:00   Open Leaders

This session will highlight some of the state of the art in Open Science & Scholarship in the form of two keynotes that look at distinctly different large-scale projects that are led by communities, followed by a discussion on the topic of the future of Open Science.

11:00 – 12:00   Sustainable futures

Openness comes with challenges. It's one thing to share publications, code, and potentially very large datasets freely, but there are still costs associated with this sharing, and those costs grow over time. This session will consider these challenges from multiple angles, looking at who should bear these costs and how, with regards to equitability.

12:00-13:00   **Lunch**

13:00 – 14:00   Challenges of equity in Open Science

Open Science and Scholarship are new ways of looking at the world. This session sets the scene by looking at the issue of Equality in Open Science practice. Topics such as gender, language, authorship, and geographical differences will be covered in this session, which is designed to introduce these overarching themes and set the scene for the workshop.

14:00-14:30   **Coffee**

14:30-16:00   Co-production workshop

This interactive workshop (titled: challenges of equity in authorship) asks the question 'How can we promote fairer practices and encompass all roles in our research outputs?' and lets you have your say in setting the baseline for future developments and better practices towards authorship justice and beyond!

16:00   **Close**

Session 1: Open Leaders

Talk 1: Emerging roles of open leadership in research: Insights from The Turing Way

Anne Lee Steele and Malvika Sharan

In a fast-paced data-driven world; where we grapple with urgent crises such as the pandemic and climate change, open science practices have proven to be important aspects of sharing information rapidly and co-creating socially responsible technical solutions. To systematically integrate open and reproducible practices in technology, it is crucial to radically change the way we collaborate and conduct our research. In this talk, we shed light on community-led and cross-disciplinary open research practices alongside emerging roles of open leadership that ensure meaningful collaboration and research outcomes. Drawing from the advocacy around research infrastructure roles and ongoing internationalisation and localisation work in The Turing Way, we will discuss different kinds of formal and informal leadership roles that work towards operationalising open, inclusive, and collaborative ways of working. Attendees will leave the session with an enhanced understanding of what constitutes open leadership in data science to enhance open science and reproducibility of their work.of Open Science, the more we seek to contextualise this phrase and question what it means to an individual's working practices.

Talk 2: Community-led co-design of Sapelli

Hannah Gibbs

Sapelli is the name for a series of open-source tools that have been co-designed by 21 local communities and the ExCiteS research team based in UCL Geography. The innovative software is specifically designed for non-literate participants and aims to enable people around the world to record and analysis geospatial data on local issues that matter to them in a culturally appropriate way. The ExCiteS methodology takes an anticolonial approach, encouraging scientists to undertake research as a support to those who request it, rather than focusing on their own working goals. Co-design in community spaces is a key principle for using Sapelli in these large-scale community-led projects. This talk will discuss the radical transformations in methodology that support co-design with examples of community-led projects using Sapelli.

Open Leaders

Speakers:

Anne Lee Steele

Anne is the Community Manager for The Turing Way project at The Alan Turing Institute, where she facilitates a collaborative resource for reproducible data science and supports an open source community in developing practices for researchers and practitioners around the world.

She has worked on a variety of projects in the open ecosystem, including at the Internet Society, Wikimedia Deutschland, and Open Knowledge Foundation, and is passionate about the capacity for open source practices to make research more accessible, collaborative, and inclusive. Previously, she worked in the data journalism and education fields.

She holds a BA from Columbia University, and an MA from The Graduate Institute of International and Development Studies in Geneva, both in anthropology and sociology.

Hannah Gibbs

Hannah is a researcher based in the Department of Geography and Institute of Archaeology at UCL. Her research explores how digital technologies can support Indigenous communities to record and manage cultural landscapes, and how recognising the contribution of diverse knowledge systems to producing "accurate scientific knowledge" can dismantle colonial structures of knowledge production. In assessing how to strike a beneficial balance between local communities, specialists, and environments, she worked supporting the development of image-based geographic analysis and visualisation tools with the European Research Council ECSAnVis Project, and works with the Erasmus+ HEIDI Project, community-based archaeological projects, international cultural heritage organisations, government units, social enterprises and charities.

Malvika Sharan

Malvika is a senior researcher for the Tools, Practices and Systems research programme at The Alan Turing Institute, London. With a focus on Open Research, she leads a team of community managers and co-leads The Turing Way project that aims to make data science reproducible, collaborative, ethical and inclusive for researchers around the globe. She is a co-founder of Open Life Science, a mentoring and training programme that empowers researchers to gain an understanding of open science principles, build collaborations with experts and adopt best practices in the context of their communities.

After receiving her PhD in Bioinformatics, Malvika started her career in community building at the European Molecular Biology Laboratory. She is a Software Sustainability Institute fellow, Open Bioinformatics Foundation board member and an active contributor of open source projects. Connect with Malvika on topics such as community building, open science, bioinformatics, and representation of marginalised members in data science and research leadership.

Open Leaders

Session 2: Sustainable Futures

Talk 1: Sustainable behaviour change through community engagement

Cassandra Gould Van Praag

Sustainability can be achieved through regenerative engagement with resources. Volunteer researchers are our key resource in promoting behaviour change towards the adoption of open science, and we must work carefully to ensure that these contributors are engaged in a way which is sustainable for our desired outcomes, their careers, and the values of open science and open leadership. In this talk I will outline community engagement models which can be used to support the growth of sustainable open science communities to promote the transfer knowledge, contribute to internal and external policy, and contribute to the design and testing of infrastructure. I will also highlight the value of a professional community manager and other team infrastructure roles to deliver sustainable and regenerative open science.

Talk 2: The environmental impacts of computational science (and the data it relies on): how bad is it and what can we do about it?

Loïc Lannelongue

The environmental impacts of computational science (and the data it relies on): how bad is it and what can we do about it?

The environmental impact of (scientific) computing is a growing concern in light of the urgency of the climate crisis, and there is widespread interest in the research community; so what can we all do about it? Tackling this issue and making it easier for scientists to engage with sustainable computing is what motivated the Green Algorithms project. We will discuss what we learned along the way, how to estimate the impact of our work and what levers scientists and institutions have to make their research more sustainable. We will also debate the ethical implications of these environmental costs and examine what is still needed moving forward.

Talk 3: **LEAF – Standard in sustainable science**

Martin Farley

Nations, institutions, and companies alike have started to make net-zero commitments, but how will this affect scientific operations and growth? Science is increasingly recognising its resource intensive nature. More green science efforts are growing around the world, though more standards are needed. LEAF is one such standard. It is now in use in over 90 institutions. LEAF now is spreading to further areas of science, like dry/computer labs. This talk will include:

- An introduction to sustainability in science
- An introduction to LEAF
- Where LEAF is going
- Next steps for all
- Questions!

Talk 4: **Funding models for Open Access monographs**

Lara Speicher

In recent years, the number of funding models for open access monographs has proliferated, with new initiatives launching on a regular basis. This presentation will run through some of the key models and consider their long-term sustainability and how they contribute to the overall landscape of OA monograph funding.

Speakers:

Cassandra Gould Van Praag

Cassandra generates opportunities for the research community to participate in and contribute to open science infrastructure at the Wellcome Centre for Integrative Neuroimaging (WIN), University of Oxford. She coordinates the delivery of computational and technical infrastructure and support the development of internal open science policy which works across modalities and for our community of researchers. Cassandra has a PhD in Informatics (2014) and MRI research experience in physiology and psychopharmacology. She was Co-Chair of the OHMB Open Science Room 2020 and have spoken about open science and inclusivity at a number of national and international meetings. She is a contributor to a number of open community tools, including Open Research Calendar, the COBIDAS Checklist and The Turing Way.

Loïc Lannelongue

Loïc is a Research Associate in Biomedical Data Science in the Cardiovascular Epidemiology Unit at the University of Cambridge. He leads the Green Algorithms project, an initiative promoting more environmentally sustainable computational science. His research interests also include combining medical imaging and genetic information with machine learning to better understand and treat cardiovascular diseases. He is a Software Sustainability Institute Fellow, a Post-doctoral Associate at Jesus College, Cambridge, and an Associate Fellow of Advance HE.

Martin Farley

Martin started Europe's first sustainable lab post at the University of Edinburgh in 2013. He then moved to King's College London where he created their sustainable lab programme. In 2015 he founded Green Lab Associates, a consultancy which supports sustainable science. He created and manages the LEAF programme, and he speaks, writes, and engages widely on sustainable science.

Lara Speicher

Lara Speicher is Head of Publishing at UCL Press. UCL Press was launched in 2015 as the UK's first fully open access university press and has gone on to publish nearly 300 OA monographs and build a portfolio of 15 journals, which have achieved global downloads of over 7 million. Lara has worked in publishing for over 25 years and has previously held positions at BBC Books and British Library Publishing.

Session 3: Challenges of equity in Open Science

Talk 1: Closing the global North-South divide on sustainability education for engineers through Open Science

Sudeshna Basugupta

The importance of incorporating sustainability concepts in engineering curricula is a pedagogic priority. However, there is not always sufficient emphasis on interdisciplinary education, particularly on promoting Earth system literacy. This would be important to address global environmental problems related to technological innovation by enhancing students' temporal and spatial awareness and Earth system competencies. Promoting Earth system literacy will also contribute towards bridging the divide between the North and South, often centred on differing approaches to environmental and climate change issues. In UCL, we are taking a lead in embedding Earth system concepts in engineering education on sustainability. The role of Open Science knowledge access will be very important in this endeavour, through opportunities such as the UCL's open access University press and open educational resources repository. However, Open Science needs to strike the right balance with Intellectual Property Rights, which can be challenging.

Talk 2: Writing about the global South: some challenges

Pavan Manogaran

In this short talk, I discuss some of the challenges faced by writers of minoritized backgrounds. Drawing from previous research that deals with themes such as postcoloniality, gender and sexuality and the global South, it attempts to suture the personal with the structural to sketch some of the ways that writing and, crucially, publishing in the academy can be experienced disproportionately differently.

Talk 3: Equity in Open Science – the role of Transformative Agreements

Dr Paul Ayris

Transformative Agreements change the way that institutions buy access to commercial journal content. In place of subscriptions, Transformative Agreements introduce a Read and Publish model, where both elements are charged for. Plan S, promoted by Science Europe, is the largest European example of this transition. UCL interacts with Transformative Agreements in various ways to continue to build its digital library offering. However, do Transformative Agreements work? Bodies such as AmeliCA, a communication infrastructure for scholarly publishing and Open Science in Latin America, believes that Transformative Agreements do not work in the global south. They are inequitable, hard bake large costs into the publishing process, and encourage perverse actions in the evaluation of excellence, which can be discriminatory. This talk will argue that what is needed is a discussion on re-inventing publishing models, with Diamond Open Access being the destination.

Speakers:

Sudeshna Basugupta

Following an undergraduate degree in Geology (achieving a First Class Honours with a distinction in subsidiary subjects Physics and Maths) and a Master's degree in Applied Geology (achieving a First Class with distinction) both at Jadavpur University, Kolkata, India, Sudeshna was awarded a 5-year Department of Space, India, PhD Studentship. Sudeshna is currently a Lecturer in the UCL Department of Chemical Engineering within the Faculty of Engineering Science, and a Senior Research Fellow in UCL Earth Sciences.

As a fellow of the Higher Education Academy, Sudeshna contributes to the nurturing of a teaching focused community at UCL. As an assessor, she engages with her colleagues from diverse subject areas on discussions related to best teaching practices to stay informed and apply them to her own teaching practices as relevant. Her research includes both educational (relating to teaching post in Chemical Engineering) and technical (relating to research in Earth Sciences) components.

Pavan Mano

Pavan Mano is a cultural theorist working in and around the fields of (20th and 21st century) contemporary literature and cultural studies. He received his PhD in English Literature & Cultural Studies from King's College London, and his work engages heavily with critical and literary theory as well as affiliated intellectual fields such as postcolonial studies, queer studies, nationalism studies, and political theory.

Dr Paul Ayris

Dr Paul Ayris is Pro-Vice-Provost, LLCCOS - Library, Culture, Collections and Open Science in University College London (UCL). He joined UCL in 1997.

Dr Ayris was the President of LIBER (Association of European Research Libraries) 2010-14. He was Chair of the LERU (League of European Research Universities) INFO Community for 10 years, ending in 2020. He also chaired OAI12 – The Geneva Workshop on Innovations in Scholarly Communication. He is a member of the UUK High-Level Strategy Group on E-Resource purchasing for the Jisc community. He has served two terms of office as a member of the President's and Provost's Senior Management Team in UCL. In 2015, Dr Ayris launched UCL Press as the UK's first fully Open Access University Press and in 2020 both the UCL Office for Open Science & Scholarship and the UCL Research Institute for Collections.

Dr Ayris has a Ph.D. in Ecclesiastical History and publishes on English Reformation Studies. In 2019, he was made a Fellow of the Royal Historical Society.

Challenges of equity in Open Science

Session 4: Workshop

Challenges of equity in authorship

Often, participants in research projects do not get credit for their significant contributions in the process, but what role should they have? People involved in a research project can hold a plethora of roles, from community leaders, patients, and citizen scientists outside the academy, to academics, research assistants, technicians, librarians, data stewards and coders within. How can we promote fairer practices and encompass all of these roles in our research outputs? In this interactive workshop, 'Challenges of equity in authorship', you can have your say in setting the baseline for future developments and better practices towards authorship justice and beyond.

The discussions will be facilitated by UCL's Co-Production Collective, a diverse and growing community of people from various backgrounds who come together to learn, connect, and champion co-production for lasting change. Providing consultancy, delivering training and presentations, and participating in the design and implementation of research projects, all with our community members involved. The Institute for Global Prosperity (IGP) is part of The Bartlett, UCL Faculty for the Built Environment. Focused on redesigning prosperity for the 21st century, changing how we conceive and run our economies, and reworking our relationship with the planet. IGP's vision is to build a prosperous, sustainable, global future, underpinned by the principles of fairness and justice, and allied to a realistic, long-term vision of humanity's place in the world.

Workshop

Code of Conduct

The organisational committee of the UCL Open Science conference are committed to providing a safe, welcoming and inclusive experience for participants.

Participants, including organisers, speakers, volunteers and attendees are expected to abide by the following code of conduct.

Code of conduct

The organisers are committed to making this meeting productive and enjoyable for everyone, regardless of gender, sexual orientation, disability, physical appearance, body size, race, nationality or religion. We will not tolerate harassment of participants in any form.

Please follow these guidelines:

- Behave professionally. Harassment and sexist, racist, or exclusionary comments or jokes are not appropriate. Harassment includes sustained disruption of talks or other events, inappropriate physical contact, sexual attention or innuendo, deliberate intimidation, stalking, and photography or recording of an individual without consent. It also includes offensive comments related to gender, sexual orientation, disability, physical appearance, body size, race or religion.

- All communication should be appropriate for a professional audience including people of many different backgrounds.

- Be kind to others. Do not insult or put down other attendees.

Participants asked to stop any inappropriate behaviour are expected to comply immediately. Attendees violating these rules may be asked to leave the event at the sole discretion of the organisers.

Reporting

If you observe someone making you or anyone else feel unsafe or unwelcome, please tell them so, and remind them of the Code of Conduct. If you are hesitant about addressing the person yourself, report it as soon as possible to the meeting organisers in person or using the contact information below. The organisers are committed to addressing and resolving the matter to the best of their abilities.

Please use the following contact information and explain what happened and who was involved so that we can investigate. All reports will be kept confidential and may be done anonymously: Kirsty Wallis (k.wallis@ucl.ac.uk)

Thank you for your participation in the conference, and your efforts to keep our meeting welcoming, respectful, and friendly for all participants!