

UCL Open Science Conference 2021



April 26th & 27th 2021

Quick Reference Programme

Day 1: Monday 26th April

Time	Title
13:00 – 13:10	Welcome, housekeeping
13:10 – 13:40	Open Science – looking to the future <i>Jean-Claude Burgelman</i>
13:40 – 13:55	Open Science at UCL – looking to our future <i>Paul Ayris</i>
13:55 – 14:10	Q&A Discussion
	<i>Break</i>
14:20 – 15:00	Future of Open Science panel
15:00 – 15:15	Panel Q&A
	<i>Break</i>
15:25 – 16:05	Technical solutions panel
16:05 – 16:20	Panel Q&A
16:20 – 16:30	Summary and close

Day 2: Tuesday 27th April

Time	Title
13:00 – 13:10	Welcome, housekeeping
13:10 – 13:30	<i>Count-erproductive?</i> The role of metrics in the advancement of Open Science <i>Lizzie Gadd</i>
13:30 – 13:40	Q&A
13:40 – 14:00	Toolkit for Transparency, Reproducibility & Quality in Energy Research <i>Gesche Huebner & Mike Fell</i>
14:00 – 14:10	Q&A
	<i>Break</i>
14:20 – 15:00	Reproducibility, Transparency & Metrics panel
15:00 – 15:15	Panel Q&A
	<i>Break</i>
15:25 – 16:05	Citizen science panel
16:05 – 16:20	Panel Q&A
16:20 – 16:30	Summary and close

Full Programme: Monday 26th April

13:00 – 13:10	Introduction, housekeeping and running order
13:10 – 13:40	Jean-Claude Burgelman (HCB, prof VUB & ed in chief Frontiers Policy Labs): Open Science - looking to the future Open Science is here to stay and will become the standard way of doing science this decade. Sooner than we thought (due to CORONA) and much more needed than we assumed (in view of the large issues we face as societies).
13:40 – 13:55	Dr Paul Ayris: Open Science at UCL - looking to our future Dr Ayris will follow the opening keynote with a discussion of how the future of Open Science will directly affect universities and what the future of developments of Open Science will be at UCL.
13:55 – 14:10	Q&A - with both speakers

Break

14:20 – 15:00	Future of Open Science panel. Chair: June Hedges
---------------	---

Thomas Rhys Evans: Expanding the View of Open Science to Better Inform Evidence-Based Practice

The talk aims to begin a discussion around the value of open science practices for the “other” applied/consultancy research that academics and practitioners conduct but which are infrequently logged as “science”. In particular, the talk will consider what sort of work falls through the gap with respect to consideration for open science practices, what the potential roles preregistration and others can hold for such works, and the potential barriers and facilitators for such change should it be considered possibly valuable. The talk ends with a call to contribute to an in-prep manuscript negotiating such a discussion.

Bethan Lever & Kseniia Panteleeva: On the role of interdisciplinarity in open science and scholarship

This talk will focus on the benefits of interdisciplinary study and research, both of which are imperative in achieving the objectives of Open Science. We will look at how academia has maintained long-standing societal inequalities, highlighting the imbalances in access to essential educational resources. Through exploring the history of academia and the influence of interdisciplinary approaches on previous scientific breakthroughs, we will demonstrate the potential for interdisciplinarity to improve the scientific literacy of wider society. This will illustrate just how critical interdisciplinarity will become in breaking down academic barriers and navigating the interconnected, modern world in which we now live.

Karen Matvienko-Sikar: Developing an open research course for undergraduate and postgraduate students: The PaPOR TRaIL project

Undergraduate and Masters students are underserved in open research education and training. Developing educational resources for these students is essential to enhance awareness and engagement with open research early in their research journey. The Principles and Practices of Open Research: Teaching, Research, Impact, and Learning (PaPOR TRaIL) project aimed to develop an open educational resource (OER) on the principles and practice of open research for undergraduate and Masters students. This talk will provide an overview of the development process and key findings from the PaPOR TRaIL project, including description of the final open research OER. We will discuss what worked, lessons we learned, and future work needed in open science education and communication.

Ameet Doshi – Layperson Use of Open Access Science: Evidence from the National Academies of Sciences, Engineering and Medicine

Given unprecedented access to scientific and technical information, do non specialists, or lay persons, who are not steeped in the foundational knowledge of a field actually use this information? My research seeks to better understand this phenomenon in an emerging era of open science. To help answer this question, I analyze downloading behavior of National Academies open access reports across 1.5 million observations. I apply quasi-experimental empirical methods including interrupted time series and natural language processing.

15:00 – 15:15 **Discussion with panellists**

Break

15:25 – 16:05 **Technical solutions panel.** Chair: James Houghton

Peter Kraker: Open Knowledge Maps: A Visual Interface to the World's Scientific Knowledge

With millions of papers published each year, getting an overview of research topics and identifying relevant publications has become a veritable challenge for researchers and students alike. Open Knowledge Maps (<https://openknowledgemaps.org>) attempts to transform discovery of scientific knowledge by providing an open, visual, and community-driven system that is based on open infrastructure. Instead of lists, we propose to use knowledge maps for discovery. Knowledge maps provide an instant overview of a field by showing its main areas at a glance and papers related to each area. In this talk, I will introduce Open Knowledge Maps and our free discovery services that are being used by hundreds of thousands of users around the world.

Rory Macneil, Edward Wallace & Ralitsa Madsen: The importance of being connected: How the RSpace electronic lab notebook and its ecosystem support FAIR data, reproducibility and open science

This talk overviews RSpace, an electronic lab notebook that enables life sciences researchers to create and collect, manage, and share data. A 'native' open science and research data management tool, RSpace interoperates with other complementary research and data management tools, serving as a value added conduit for research data, rather than a silo. Integrations with data repositories like Figshare and Dataverse enable direct data deposit into the repositories, for viewing and query by other researchers. Rory Macneil will overview RSpace and discuss opportunities for deployment in EOSC, and Ralitsa Madsen will explain how her lab uses RSpace, and how it enables reusability, replicability and reproducibility.

Steffen Zschaler: Domain-specific modelling languages as enablers of open computational science – a vision

Many sciences require computational support—for example in the form of simulations, data-analysis packages etc. But software development requires a very different skillset to, for example, biology. This creates a risk for open science: how well do we understand the software that our science relies on and what implications does this have for our trust in this software and the science that builds on it? Fundamentally, addressing this challenge requires us to enable true co-creation between scientists and software engineers in a way where the translation of scientific concepts into software can be rigorously documented and traced, opening it for inspection and scientific challenge. In this talk, I will give a brief introduction to the software-engineering area of model-driven engineering, and present a vision of how model-driven engineering can help address this challenge of open computational science through the creation of bespoke, domain-specific languages that can be understood by scientific stakeholders and have an automated translation pipeline to produce computational experiments in a traceable form.

Adam Vials Moore: FAIR PIDs make Open Science a Global Affair

We are reaching some maturity in the world of scholarly open architecture for STEM in the Anglocentric global north. This talk will look at the challenges leading on from that to deliver a truly worldwide global open science. How do we globalise and share technology, lived experience and skills without patronising? How do we find where leadership and first advantage have left gaps and opportunities and act upon that in a coordinated manner?

16:05 – 16:20	Discussion with panellists
---------------	----------------------------

16:20 – 16:30	Close
---------------	-------

Full Programme: Tuesday 27th April

13:00 – 13:10	Introduction, housekeeping and running order
---------------	--

13:10 – 13:30	Lizzie Gadd: <i>Count-erproductive?</i> The role of metrics in the advancement of Open Science. Lizzie will talk about where metrics can be helpful and unhelpful, and what alternative forms of evaluation we might use to incentivise, monitor, promote and reward open research practice.
---------------	--

13:30 – 13:40	Q&A with Lizzie
---------------	-----------------

13:40 – 14:00	Gesche Huebner and Mike Fell: Toolkit for Transparency, Reproducibility & Quality in Energy Research. The talk will draw on a recent paper considering the use of open science approaches in applied, multidisciplinary research areas. It will set out some of the key barriers we have noted in the case of energy research, and then present our new “TReQlist” (or checklist for transparency, reproducibility and quality) covering tools that we suggest are applicable in multidisciplinary research areas. We also show at what stages those tools help to improve research practices. We focus on the benefits to researchers of employing these approaches, countering the narrative that following good practice on open science is either burdensome or in opposition to career progression incentives.
---------------	---

14:00 – 14:10	Q&A with Gesche and Mike
---------------	--------------------------

Break	
--------------	--

14:20 – 15:00	Reproducibility & Transparency / Metrics panel. Chair: Andrew Gray
---------------	--

Grace Gottlieb: Training and badges to incentivise transparency in research	
--	--

At present there is variable awareness among researchers of the importance of research transparency, and a lack of incentives in the research system. This initiative will deliver:	
---	--

- | | |
|--|--|
| <ol style="list-style-type: none">1. An animated UCL training course on transparency and reproducibility in research, to raise awareness of transparent and reproducible research practices and their importance2. A research transparency badge to recognise commitment of individuals, who can use the badge if they complete the UCL training course on research transparency. | |
|--|--|

Jessie Baldwin: Protecting against researcher bias in secondary data analysis: Challenges and solutions

Protecting against researcher biases – both conscious and unconscious – can help to prevent questionable research practices and ensure reproducible findings. While pre-registration can help to protect against researcher biases, it involves several challenges for secondary data analysis. In this talk, I will describe these challenges, and propose novel solutions and alternatives. The adoption of these practices can help researchers to effectively pre-register secondary data analysis studies, or use an alternative approach, to protect against common human biases.

Laura Convertino, Federico Binda, Claudia Basta & Antonella Succurro: From paying for reading to paying for publishing: To whom, and for whom are Open Access scientific articles accessible?

Universal access to scientific knowledge is the core principle of Open Science and, considering scientific publishing, of Open Access. Scientific publishers implemented Open Access options shifting the cost of accessing scientific articles from readers to authors. A critical question arises: does reallocating the cost of publishing create a new form of inequality across the scientific community? We investigate the potential financial barriers associated with the cost of publishing, considering differences between disciplines, geographic locations, organizations, and scholarly backgrounds. We highlight possible threats to the so-called 'Golden Road to Open Access' that might constitute paradoxical forms of inaccessibility and exclusion.

Jon Johnson – Managing metadata at scale in social science and population health studies

CLOSER Discovery (discovery.closer.ac.uk) is a metadata catalogue which supports granular description of data, provenance and concepts, that enables discovery and provenance of complex social science and population health data collection. The presentation will focus on the primary challenge, which is the management (creation and versioning) of @1 million and growing PIDs using an ISO11179 compliant repository and the development of user facing tools to support ingest of statistical datasets and data collection instruments.

15:00 – 15:15 **Discussion with panellists**

Break

15:25 – 16:05 **Citizen Science panel.** Chair: Abril Herrera

Fabien Moustard: Flourishing Diversity

This study explores the spaces of flourishing diversity in the critical zone. It engages in research on research *à la* Latour. But in this case the research does not focus on laboratory life and the social construction of scientific facts but on anthropological life and the social construction of mutual recognition. Studying the Extreme Citizen Science (ECS) research project will reveal the cultural processes of recognition enabling the subordinate indigenous communities to be recognised by the minority-world dominant culture and *vice versa*. It can therefore reveal what fosters a dialogue between them.

Monica Lakhanpaul – Collaborating to overcome the COVID challenge

Citizen science – working in partnership with communities to achieve better, more tailored and relevant interventions. How can we work together when all the usual methods; focus groups, workshops, interviews; require being face-to-face? As with everything, COVID has forced us to adapt and adopt new methods for engaging to ensure we keep hearing the voices of vital participants, the community and collaborators.

This talk will outline how three interdisciplinary projects, one in the UK, one in Turkey and one in India, have managed to continue and adopted flexible approaches despite the restrictions in place around the world.

Regina Lenart-Gansiniec: Understanding the crowdsourcing in science: the fit between openness and scientists characteristics

Crowdsourcing is recognized as a new model for researchers' work, a complement to the traditional approach to science and a further step in the development of science. Pointing the attention to the human elements, this presentation sheds light on the micro-foundation of crowdsourcing in science by emphasizing the role that the personal traits of key academics. Crowdsourcing in science adoption could result in the enactment of several crowdsourcing in science modes – each representing an opportunity of potential openness and inviting non-academics and academics. Our analysis, using systematic literature review, shows that academics' positive attitude can play important roles in facilitating crowdsourcing in science.

Helen Spiers – Zooniverse

A principal challenge faced by many academic domains is how to efficiently extract meaningful information from the vast quantities of data that are now being routinely produced by novel technologies. Automated analysis approaches, including the application of machine learning techniques, often remain limited due to a lack of suitable training data, hence the requirement for expert effort in manual analysis continues to pose a critical research bottleneck. One innovative solution to this challenge is to perform distributed data analysis via online citizen science platforms such as The Zooniverse (www.zooniverse.org). Since the establishment of the Zooniverse, more than 2 million volunteers have contributed to over 200 projects from multiple academic domains to enable research that wouldn't have otherwise been possible. In this lightning talk, I will provide an overview of the range of citizen science projects enabled by the Zooniverse, and highlight some of their key findings. I will conclude by providing an overview of the process of building and launching an online citizen science project with the Zooniverse.

16:05 – 16:20	Discussion with panellists
16:20 – 16:30	Close

Keynote Speakers

Jean-Claude Burgelman

Jean-Claude Burgelman is (part time) professor of Open Science Policies and Practices at the Free University of Brussels (Faculty of Social Science and Solvay Business School) He retired on 1-3-2020 from the EC as Open Access Envoy. Until 1-8-2019 he was the head of Unit Open Science at DG RTD and his team developed the EC's policies on open science, the science cloud, open data and access.

He joined the European Commission in 1999 as a Visiting Scientist in the Joint Research Centre (the Institute of Prospective Technological Studies – IPTS), where he became Head of the Information Society Unit. In January 2008, he moved to the Bureau of European Policy Advisers (attached to the president of the EC) as adviser for innovation policy. Since 1-10-2008, he joined DG RTD, as advisor and then Head of Unit in charge of top level advisory boards like the European Research and Innovation Area Board, the Innovation for Growth Group and the European Forum for Forward Looking Activities.

Until 2000 he was full professor of communication technology policy at the Free University of Brussels, as well as director of its Centre for Studies on Media, Information and Telecommunication and was involved in science and technology assessment. He has been visiting professor at the University of Antwerp, the European College of Bruges and the University of South Africa and sits on several academic journals. He chaired the World Economic Forum's Global Agenda Council on Innovation and was a member of its Science Advisory Committee. He was recently appointed as editor in chief of Frontiers Policy Labs and also joined the Board of Directors of DONA

Dr Paul Ayris (@ucylpay)

Dr Ayris is Pro-Vice-Provost (UCL Library Services & the UCL Office for Open Science and Scholarship). 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, finishing 10 years in office in December 2020. He is now the LERU observer in the EOSC Association and UCL's Open Science Ambassador in the LERU Open Science Ambassadors Policy Group.

He also chairs the OAI Organizing Committee for the Geneva Workshops on Innovation in Scholarly Communication. He is a member of the UUK High-Level Strategy Group on E-Resource purchasing for the Jisc community. On 1 August 2013, Dr Ayris became Chief Executive of UCL Press. He is a member of the Provost's and President's Senior Management Team in UCL. On 1 October 2020, Dr Ayris launched the UCL Office for Open Science and Scholarship, of which he is head.

He 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.

Dr Lizzie Gadd

Elizabeth (Lizzie) Gadd is a scholarly communications specialist working as a Research Policy Manager (Publications) at Loughborough University, UK.

She chairs the International Network of Research Management Societies (INORMS) Research Evaluation Working Group which has developed the 'SCOPE' model for responsible research evaluation and a set of principles and assessment tool for responsible University Rankings. In 2010 she co-founded and now chairs the LIS-Bibliometrics Forum for HE bibliometrics specialists. Under this umbrella she founded The Bibliomagician Blog which provides advice and guidance 'by practitioners, for practitioners'. She also is co-Champion for the ARMA Research Evaluation SIG. In 2020 she was the recipient of the INORMS Award for Excellence in Research Management Leadership.

She holds a PhD in copyright ownership and scholarly communication and regularly writes, researches and speaks on scholarly communication topics relating to copyright ownership, open access, bibliometrics and research evaluation.

Dr Gesche Huebner

Dr Gesche Huebner is a Lecturer at the UCL Institute for Environmental Design and Engineering and a Senior Research Fellow at the UCL Energy Institute. Her research is focused on understanding drivers of energy consumption and temperatures in home and on assessing links between the built environment, health, and wellbeing.

Dr Mike Fell

Dr Michael Fell is a Senior Research Fellow at UCL Energy Institute. His research (on home energy use) employs quantitative and qualitative methods, and includes both original data collection and systematic review approaches. He has previously worked on secondment in the Open Science Team at the Department of Business, Energy and Industrial Strategy. Mike and Gesche are both working on promoting research practices for greater transparency, reproducibility and quality in applied energy research, and have given presented, published, and taught on this topic.

Panellists

Future of Open Science Panel

Thomas Rhys Evans

Tom (@ThomasRhysEvans) is an Associate Professor in Occupational Psychology at the University of Greenwich. Tom's early research focused upon a variety of themes surrounding the affective and social aspects of our working lives, leading projects on humour, emotional intelligence, feedback, and frustration. Tom's research now predominantly focuses upon using meta-psychology and open science practices to understand the quality of evidence within Occupational Psychology, and Psychology more broadly. Tom particularly enjoys adopting a collaborative and critical approach to addressing big societal issues and welcomes such discussions.

Bethan Lever

Bethan Lever is a first year BAsc Arts and Sciences undergraduate student, studying a combination of Inorganic chemistry, science communication, German and law. Her particular interests involve materials chemistry, science policy and public engagement with science, focusing heavily on finding methods to disseminate the science in an easily accessible and comprehensible manner. She is passionate about improving science communication within society, making science accessible to the wider public and focusing on social equity and justice. These interests have only been strengthened through her interdisciplinary degree, which has emphasised the critical need for communication between disciplines and a collaborative and integrative approach between academics.

Her future aspirations include working in the field of materials chemistry, with particular focus on science policy and public communication, in order to bridge the gaps between research and the wider world outside of academia.

Kseniia Panteleeva

Kseniia is a 2nd year Human Sciences student with a keen interest in approaching science through the lenses of open science, interdisciplinarity, and effective science communication. She is hoping to pursue a career in research within cancer biology, while maintaining the values of collaboration, transparency and accessibility

Dr Karen Matvienko-Sikar

Karen is a Lecturer and Health Research Board Research Fellow in the School of Public Health, University College Cork, Ireland. Karen is a health psychologist with primary research interests in maternal and child health. She is a Catalyst for the Berkeley Initiative for the Social Sciences (BITSS) and is currently leading development of teaching and learning resources for undergraduate and Master-level students in the National Forum funded Principles and Practices of Open Research: Teaching, Research, Impact and Learning (PaPOR TRAIL) project.

Ameet Doshi

Ameet Doshi is Subject Librarian for Public Policy and Law and a PhD student in Public Policy at the Georgia Institute of Technology in Atlanta, Georgia, USA. His research interests include science and technology policy, bibliometrics, open science, and designing library and learning spaces. Mr. Doshi's doctoral dissertation focuses on quasi-experimental methods to assess layperson use of open access science. Ameet is also co-host of a weekly podcast about libraries called "[Lost in the Stacks](#)" on [WREK Atlanta](#) where he and his co-hosts free associate an hour of music and library talk.

Technical Solutions Panel

Peter Kraker

Dr. Peter Kraker is the founder and chairman of Open Knowledge Maps, a charitable non-profit dedicated to dramatically increasing the visibility of scientific knowledge for science and society alike. A long-time open science advocate, Peter is known for coining the term Open Methodology and for his leading role in creating The Vienna Principles – A Vision for Scholarly Communication in the 21st Century. Peter is a member of the GO FAIR executive board, coordinator of the GO FAIR Implementation Network on Discovery, and a core team member of the Open Science Network Austria (OANA). Prior to founding Open Knowledge Maps, Peter was a senior researcher at Knowledge Center of Graz University of Technology, managing the topic of Open Science.

Rory Macneil

Rory is CEO of Research Space. For the past ten years he has led the development of RSpace from a concept into a core RDM tool, leading the Research Space team in extensive interactions with researchers, RDM practitioners, and IT managers at leading institutions including the University of Edinburgh, the University of Goettingen, Harvard University and the University of Wisconsin, to understand requirements and translate them into a tool that is useful to researchers and also facilitates the evolving RDM objectives of their institutions. He has also spearheaded engagements with the multiple tools providers that form part of the RSpace ecosystem. Rory was an early advocate of the view that FAIR data and open science can only be accomplished when an ecosystem of interoperable tools comes into place. This view is now gaining traction through visions like the Harvard Data Commons, where tools including RSpace, protocols.io, Jupyter, Open Science Framework and Github are made available to researchers in a way that integrates with the institution's IT and RDM infrastructure.

Ralitsa Madsen

Dr Ralitsa Madsen is Sir Henry Wellcome Postdoctoral Fellow at the UCL Cancer Institute. She holds a PhD from the Institute of Metabolic Science, University of Cambridge; where she first got the Open Science bug. This was followed by a short postdoc at the University of Edinburgh to help my PhD supervisor with his lab move there. Ralitsa is passionate about PI3K signalling in health and disease and in recent years, has got more and more involved in promoting Open Science as a means to improving research culture.

Edward Wallace

Dr. Wallace is a Sir Henry Dale Fellow (Group Leader) in the Institute of Cell Biology at the University of Edinburgh. His Fellowship, started in 2018, is supported by [The Wellcome Trust](#) and [The Royal Society](#). He is leader of the [Wallace Lab](#) for fungal RNA biology and data science instructor at the [Edinburgh Carpentries](#).

Dr Steffen Zschaler

Dr Steffen Zschaler is a Senior Lecturer in Computer Science at King's College London and director of MDENet, the expert network on model-driven engineering. His research interests are in the foundations, tools, and applications of model-driven engineering. He is particularly interested in the application of model-driven engineering to the systematic creation of computational simulations that can be used as scientific instruments.

[Dr Adam Vials Moore \(@adam__moore\)](#)

Dr Adam Vials Moore is currently the Product Specialist for Persistent Identifiers in the Open Research Team at Jisc. He is part of the team supporting the UK ORCID consortium. An advocate of the need for the outputs of research to be openly available and easy to discover and access, Adam has experience across a wide array of enabling technologies and infrastructures, including metacognitive and adaptive learning, hypertext, bioinformatics and RIM/repository architecture. His current interests focus on ensuring the global connectivity enabled by PIDs, infrastructure and metadata allow for equitable discovery and access for all scholarly work and developing the intertwingular nature of hyperconnected information structures.

[Reproducibility & Transparency / Metrics panel](#)

[Grace Gottlieb](#)

Grace Gottlieb is Head of Research Policy in the Office of the Vice-Provost (Research). She joined UCL in 2017 and her role is to drive forward UCL's research policy agenda, leading on policy development and advocacy of UCL's positions. As part of this, Grace has led UCL's work to promote transparency and reproducibility in research, including the development of UCL's [Statement on Transparency](#), which sets out the steps UCL expects researchers to take in order to make their research transparent. Prior to joining UCL, Grace worked at the Medical Research Council and in health policy at the Royal College of Surgeons.

[Jessie Baldwin](#)

Jessie is a Sir Henry Wellcome post-doctoral fellow in the Clinical, Educational and Health Psychology Department at UCL. Her research focuses on understanding the links between adverse childhood experiences and mental health, using genetically informative designs and statistical methods to strengthen causal inference. She is interested in open science and is the co-organiser of the UCL ReproducibiliTea journal club and joint UCL Local Network Lead for the UK Reproducibility Network.

[Laura Convertino](#)

Laura Convertino is a PhD candidate in cognitive and theoretical neuroscience at UCL (University College London), awarded by the Leverhulme Trust Doctoral Training Programme for the Ecological study of the Brain. She studied Medicine and Surgery at the University of Pavia, with a parallel diploma in Biomedical Sciences at IUSS Pavia, and became a qualified MD in 2018. Proud member of Collegio Ghislieri, she had the opportunity to extend her experience in research and clinical training in different international leading institutions (University of Cambridge, Kavli Institute for system neuroscience Trondheim, Harvard University, ENS Paris, Paris Descartes). She is particularly interested in issues related to minorities' access to the benefits of science and scientific knowledge, and in promoting freedom of research and the right to science beyond cultural biases.

[Antonella Succurro](#)

Antonella Succurro studied physics at the University of Pavia (Italy), where she was also an alumnus of Collegio Ghislieri. She pursued her doctoral studies in particle physics at CERN (the European Organization for Nuclear Research), working in Geneva (Switzerland) and Barcelona (Spain). She was a member of the ATLAS collaboration during the exciting times of the discovery of the Higgs boson and considers her training at CERN a fundamental part in shaping her passion for open science and knowledge transfer. Interested in understanding the complexity of life, she continued her scientific career as a researcher in computational biology. Today she is a scientific officer of the West German Genome Center in Bonn (Germany), a national competence center for Next Generation Sequencing.

Federico Binda

Federico Binda is a researcher in pure mathematics and a passionate pro-European political activist. He is one of members of the Steering Committee of Science for Democracy and he follows the topics of Open Science and Open Access. He is active since 2016 with the Luca Coscioni Association for the Freedom of Scientific Research. Federico Binda works as Assistant Professor at the University of Milan (Italy), and was previously a researcher at the university of Regensburg (Germany). He holds master degrees from the University of Milan (Italy) and the University of Paris XI (France), and a PhD (University of Duisburg-Essen, Germany) in mathematics. He has been a visiting scholar at the Hausdorff institute for Mathematics (Bonn, Germany), the Tata Institute of Fundamental Research (Mumbai, India), the Institut Mittag-Leffler (Djursholm, Sweden), the University of Tokyo and the University of Oslo.

Claudia Basta

Claudia Basta is a researcher at the Dutch national research institute for the living environment in The Hague. Claudia Basta supports Science for Democracy in identifying and formulating political initiatives lying on the intersection of science, policy-making and society. Her background combines urban sustainability studies (MSc, University of Venice) with European risk governance (PhD, Delft University of Technology) and applied ethics studies (Post-Doc, 4TU Centre of Excellence in Ethics and Technology, Delft). Her main interests gravitate around the ethical theories and normative principles that inform the practices of human welfare and environmental sustainability assessment. Her relevant works are published in Planning Theory and Environmental Impact Assessment Review among other journals. Critical about the hypertrophic production of literature to which early-career scientists are forced to earn any academic positions, she is keen to promote a culture of quality and originality vs. quantity and conformism among PhD students. The 'politics and policy' of European research and of its evaluation is thus at the top of her professional interests together with the advancement of value-driven approaches to the assessment of the social impacts of science.

Jon Johnson

Data Management and Metadata specialist working at CLOSER, leading the infrastructure strand of our work. The main focus is development of the CLOSER Metadata Search being developed as part of the CLOSER collaboration between the UK's birth cohorts and longitudinal studies. He is Vice-Chair of the DDI Alliance Technical Committee, and co-chair of the European DDI Conference). He has previously worked at the Senior Data Manager at the Centre for Longitudinal Studies, and as a senior developer in software houses in the insurance and banking sectors and also in the civil service.

Citizen Science panel

Fabien Moustard

Fabien Moustard is a PhD candidate at University College London and a member of the ExCiteS Research Group. His research in Anthropology/Sociology examines the cultural processes of recognition across different societies, with a particular emphasis on the Extreme Citizen Science project in which indigenous people and UCL scientists work together in knowledge co-production in eight locations around the world. Specifically, he probes the ongoing basis through which the two groups tend to place each other into categories. Prior to his Ph.D., Fabien obtained a BSc and an MSc from the Sorbonne University, both with concentrations in Earth Sciences, during which he conducted a mission in the Atacama Desert; and an M.Phil from the University of Louvain, with a concentration in Political Sciences, during which he organised a Citizens' panel at the Belgium Wallonia Parliament.

Professor Monica Lakhanpaul

Professor Monica Lakhanpaul (Professor of Integrated Community Child Health at UCL GOS ICH, Honorary Consultant Paediatrician, Pro-Vice-Provost for South Asia) is a researcher, academic and clinician with extensive experience of leading interdisciplinary programmes internationally and in the UK.

She works primarily with marginalised and vulnerable communities and aims to address health inequalities through participatory research, cross sector and citizen science approaches, co-developing solutions with communities to ensure that they are as effective as possible. This work often takes a life-course approach, addressing issues that can contribute to higher morbidity and mortality later, such as nutrition, hygiene and infection, although recently she has been working to understand the impact of COVID on some of the most vulnerable populations in the world.

Some of her most notable projects include the Childhood Infections and Pollution Consortium, which is working to improve the lives of children under-5 in peri-urban slums; the Nurture Early for Optimal Nutrition Programme, which is the first project to reverse innovate from LMICs and uses a participatory learning and action approach to improve nutrition among South Asian populations in East London; and CHAMPIONS, which is working to understand the impact of COVID on homeless children in England.

Regina Lenart-Gansiniec

Associate Professor at the Institute of Public Affairs at the Faculty of Management and Social Communication of the Jagiellonian University in Krakow, doctor habilitatus in economic sciences in the field of management sciences. Author, co-author and editor of monographs and about one hundred and twenty five Polish and foreign scientific articles devoted to the issues of management, especially crowdsourcing, knowledge management, and organizational behaviour. Principal investigator and participant in eight international research projects. Reviewer and member of the Editorial Board of many recognized scientific journals and scientific conferences in Poland and in the world.

Helen Spiers

Dr Helen Spiers is the Biomedical Research Lead of the Zooniverse (www.zooniverse.org). Currently based across the University of Oxford and The Francis Crick Institute, where she is presently seconded, Dr Spiers collaborates with multiple national and international research groups to develop, deploy and novel biomedical citizen science projects. Although diverse in subject matter, these projects are united by the common aim of applying collective intelligence to perform distributed data analysis of large volumes of biomedical data. Additionally, Dr Spiers analyses the meta-data produced by the Zooniverse platform and applies citizen science to advance electron micrograph segmentation approaches. Prior to her current role, she completed a PhD in developmental epigenetics at King's College London after obtaining a degree in Biochemistry from the University of Oxford.