

## *Biographies*

### **Introduction**



#### **Carthage Smith**

Carthage Smith joined the Global Science Forum Secretariat in June 2014 as Lead Co-ordinator. He is responsible for overseeing the Forum activities and working with members and delegates to define the overall strategy and priorities. He was originally trained as a biochemist, with a PhD in neuroscience (Newcastle University, UK). Prior to joining the GSF secretariat, he was Deputy Executive Director of the International Council for Science (ICSU, Paris) for twelve years. In this position he led the strategic development of a number of major global science initiatives, in areas ranging from environmental science to urban health, and managed a number of science for policy and policy for science activities. Prior to moving to France, he spent six years at the UK Medical Research Council, where he was Head of International Science Policy.



#### **Natalie Harrower**

Dr. Natalie Harrower is Director of the Digital Repository of Ireland, a certified national infrastructure for Ireland's arts, social sciences and humanities data. Actively involved in developing the open science agenda in Ireland and internationally, Dr. Harrower serves on the steering group of Ireland's National Open Research Forum, is a member of the EOSC working group on FAIR and of the European Commission's FAIR data expert group, which published the influential Turning FAIR into Reality. A long time contributor to the Research Data Alliance, Natalie is a PI on successive Research Data Alliance Europe projects, helping to build capacity for research data sharing across domain and geographical borders. She serves on the ALLEA (European Federation of Academies) Open Science Taskforce, is past chair of the ALLEA E-Humanities working group, and a co-chair of the Research Data Alliance COVID-19 working group, which published guidelines for global sharing of COVID-19 research data.

## Session 1: Basic medical and clinical research



### **Nevine Zariffa**

Névine is a highly accomplished thought leader in the fields of biostatistics and data science with extensive experience across all phases of drug development. Névine had a 25-year career in senior roles at GlaxoSmithKline and AstraZeneca where she also led the Enterprise Data & Analytics initiative. She has been a key contributor to development strategies for over 200 drug projects across oncology, cardiovascular, metabolic, respiratory, inflammation, and renal diseases. She served as a Board member of CDISC for 6 years, has been a reviewer for The Lancet and has over 30 peer reviewed publications to her name. She is currently a strategic consultant to several scientific data consortia ([ICODA](#) and [ctMoniTR](#)) and to the FDA, Office of the Commissioner, on the application of real-world evidence to COVID19.



### **Michael Brudno**

Michael Brudno is a Professor in the Department of Computer Science at the University of Toronto, as well the Chief Data Scientist at the University Health Network (UHN). He is a faculty member at the Vector Institute for Artificial Intelligence, the Scientific Director of HPC4Health, a private computing cloud for Ontario hospitals, and AI Chair at the Canadian Institute for Advanced Research (CIFAR), Pan-Canadian AI Strategy Group.

His main research interest is in the development of computational methods for the analysis of clinical and genomic datasets, especially the capture of precise clinical data from clinicians using effective user interfaces, and its utilization in the automated analysis of genomes. This work focuses on the capture of structured phenotypic data from clinical encounters, using both refined User Interfaces, and mining of unstructured data (based on Machine Learning methodology), and the analysis of omics data (genome, transcriptome, epigenome) in the context of the structured patient phenotypes, mostly for rare diseases. His overall research goal is to enable the seamless automated analysis of patient omics data based on automatically captured information from a clinical encounter, thus streamlining clinical workflows and enabling faster and better treatments.

After receiving a BA in Computer Science and History from UC Berkeley, Michael received his PhD from the Computer Science Department of Stanford University, working on algorithms for whole genome alignments. He completed a postdoctoral fellowship at UC Berkeley and was a Visiting Scientist at MIT. He is the recipient of the Ontario Early Researcher Award and the Sloan Fellowship, as well as the Outstanding Young Canadian Computer Scientist Award.

More information can be found at <https://brudno.uhndata.io/>



### **Marie-Paule Kiény**

Dr Marie-Paule Kiény is Director of Research at Inserm (Paris, France), in charge of the Priority Research Program on Antibiotic Resistance initiated by France in 2019 as part of the Investment Program for the Future. She also represents France on the Management Board of the Joint Programming Initiative on Antimicrobial Resistance, JPIAMR.

Between March 24 and July 10, 2020, she was a member of the Research and Expertise Analysis Committee (CARE), set up by President Macron, to advise the government on treatments, vaccines and tests against COVID-19. Since June 2020, she chairs the French Scientific Committee on COVID-19 vaccine.

Besides her responsibilities in France, Marie-Paule Kiény is Chair of the Board of the Drugs for Neglected Diseases Initiative (DNDi, Switzerland) and of the Medicines Patent Pool Foundation (MPPF, Switzerland). She is Vice-Chair of the Board of the Global Antibiotic Research and Development Partnership (GARDP, Switzerland), member of the Board of Directors of the Human Vaccine Project (HVP, USA), of Fondation Mérieux France) and of the Solthis association (France). She is an independent non-executive Director of bioMérieux (France). She participates in the scientific councils of several organizations active in the field of health.

Until June 2017, Dr Kiény served as Assistant Director-General for Health Systems and Innovation at the World Health Organization. Her leadership at WHO included coordinating WHO's R&D efforts during the Ebola epidemic in West Africa from 2014 to 2016 and she conceptualized the WHO R&D Blueprint, a global preparedness plan for emerging disease outbreaks. Prior to joining WHO, Marie-Paule Kiény held leading research positions in the public and private sectors in France.

## **Session 2: Omics research and epidemiology**



### **Niklas Blomberg**

Niklas Blomberg is Director of ELIXIR, the European infrastructure for bioinformatics and life-science data, based in Hinxton, UK ([www.elixir-europe.org](http://www.elixir-europe.org)).

Before joining ELIXIR in 2013 as the founding Director he worked in pharmaceutical research with AstraZeneca (1999-2013) where he held a number of different roles including establishing a joint computational biology and computational chemistry team for respiratory research and leading the global cheminformatics unit. Niklas Blomberg holds a Ph.D. in structural bioinformatics and protein NMR spectroscopy from EMBL Heidelberg (1999) and a BSc in Biochemistry from Göteborg University, Sweden.

He currently coordinates ELIXIR-EXCELERATE - an EU H2020 project with 45 partners and 29 M€ funding to develop the ELIXIR infrastructure, CORBEL (35 partners, 14M€) to drive interoperability between Europe's 12 life science research infrastructures and the EOSC-Life (46 partners, 25M€) to build a collaborative digital space for European life science research.

### **Priyanka Pillai**



Priyanka Pillai has a background in bioinformatics and software programming and works as an academic specialist at the University of Melbourne. Priyanka works as a Research Data Specialist for the Melbourne Data Analytics Platform (MDAP) and as a Health Informatics Specialist for the Australian Partnership for Preparedness Research on Infectious Disease Emergencies (APPRISE) Centre of Excellence (CRE) based at the Peter Doherty Institute for Infection and

Immunity in Melbourne, Australia.

### **Xihong Lin**



Xihong Lin is Professor and Former Chair of Biostatistics, Coordinating Director of the Program in Quantitative Genomics of Harvard TH Chan School of Public Health, and Professor of Statistics at Harvard University. Dr. Lin's research interests lie in development and application of scalable statistical and computational methods for analysis of massive genetic, epidemiological and clinical data. She is an elected member of the US National Academy of Medicine. Dr. Lin received the 2002 Mortimer Spiegelman Award from the American Public Health Association, the 2006 Presidents' Award and FN David Award from the Committee of Presidents of Statistical Societies (COPSS). She is the PI of the Outstanding Investigator Award from the National Cancer Institute, and the contact PI of the Harvard Analysis Center of the Genome Sequencing Program of the National Human Genome Research Institute. She has been active in COVID-19 research. She

is a corresponding senior author of the landmark JAMA and Nature papers on analysis of the Wuhan COVID-19 data on transmission, public health interventions and epidemiological characteristics. In Spring 2020, Dr. Lin served on the State of Massachusetts COVID-19 Task Force, and testified in the UK Parliament's Committee of Science and Technology on COVID Responses. She serves on the World Health Organization (WHO) and the United Nations Department of Economic and Social Affairs (UN DESA), the Technical Advisory Group on COVID-19 Mortality Assessment

## **Session 3 Social sciences and interdisciplinary research**

### **Stefania Milan**



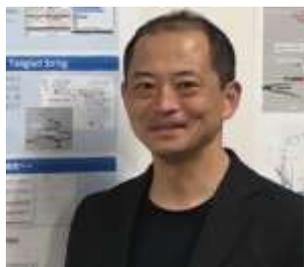
Stefania Milan ([stefaniamilan.net](http://stefaniamilan.net)) is Associate Professor of New Media and Digital Culture at University of Amsterdam. Her work explores the interplay between digital technology, activism and governance. Stefania is the Principal Investigator of DATACTIVE ([data-activism.net](http://data-activism.net)) and "Citizenship and standard-setting in digital networks" ([in-sight.it](http://in-sight.it)), funded by the European Research Council and the Dutch Research Council respectively. In 2017, she co-founded the Big Data from the South Research Initiative, investigating the impact of datafication and

surveillance on communities at the margins. Stefania is co-author of *Media/Society* (Sage, 2011), author of *Social Movements and Their Technologies: Wiring Social Change* (Palgrave Macmillan, 2013/2016), and co-editor of *COVID-19 from the Margins. Pandemic Invisibilities, Policies and Resistance in the Datafied Society* (Institute of Network Cultures, 2021).



### **Katja Mayer**

Katja Mayer works as sociologist at the University of Vienna, Department of Science and Technology Studies. Her research examines the power of social science methods, focusing on the cultural, ethical and socio-technical challenges at the interface of computer science, social science and society. In addition, she is Senior Scientist at the Center for Social Innovation in Vienna and Associate Researcher at the University of Vienna's 'Governance of Digital Practices' platform. She is also a member of the Open Access Network Austria's core team, co-heading the 'National Strategy for the Transition to Open Science' working group, which recently published its recommendations.



### **Yukio Ohsawa**

Yukio Ohsawa is a professor of Systems Innovation in the School of Engineering. He received BE, ME, and PhD from the School of Engineering, The University of Tokyo (1995). Then worked for the School of Engineering Science at Osaka University (research associate, 1995-1999), Graduate School of Business Sciences at University of Tsukuba (associate professor, 1999-2005), and moved back to The Univ. of Tokyo. He started researches from nonlinear optics, and, via artificial intelligence, created a new domain chance discovery meaning to discover events of significant impact on decision making, since year 2000. Chance discovery came to be embodied as innovators' marketplace (IM), a socionetwork system for innovation borrowing principles of the dynamics of markets. Then he extended this method to IM on Data Jackets (IMDJ) for enhancing chance discoveries via combining datasets from various scientific/business domains. Since then, he is introducing these methods to sciences, educations, and businesses. His original concepts and technologies have been published as books from global publishers such as Springer Verlag, Taylor & Francis, etc as well as papers in journals and conferences. "Stay with Your Community" in this talk, saying people can choose places to stay with intended people to contact rather than others for reducing the risk of infection spread, is a fruit of IMDJ.

## Session 4: Roundtable discussion: National and international policy perspectives



### **Camilla Stoltenberg**

Dr. Camilla Stoltenberg (born 1958) is the Director-General of the Norwegian Institute of Public Health. She is a medical doctor and epidemiologist, and an adjunct professor at the University of Bergen. Stoltenberg holds a number of positions in national and international boards and networks, including the Scientific Advisory Board (SAB) of the Pan-European Commission on Health and Sustainable Development, the Global Health Summit scientific expert panel and the Executive Board of the International Association of National Public Health Institutes (IANPHI). Stoltenberg chaired a governmental commission on the gender gap in education, producing a white paper that was finalized in February 2019.



### **Kazuhiro Hayashi**

Kazuhiro Hayashi is a catalytic researcher to promote Open Science since 1995. Based on his chemistry background and IT skills, he started to digitalize journals of the Chemical Society of Japan in 1990's, established as a e-journal with its business sustainability including Open Access in 2000's. After moving to NISTEP in 2012, with a vision fostered in the society, his challenge has been expanded to facilitate transformation of research outputs, research impacts, research activities themselves and research communities, currently focusing on research data and social impact. He is now helping the Cabinet Office, UNESCO, G7 Open Science WG (policy-side) and also helping Science

Council of Japan, some Learned Societies and other grass-root activities (implementation-side) to develop Open Science policy and to implement it more practically.



### **Yazdan Yazdanpanah**

Dr Yazdan Yazdanpanah was appointed in 2021 as Director of the French ANRS emerging infectious diseases Agency that fund and coordinates research on HIV, Hepatitis, STIs, Tuberculosis and emerging and re-emerging infections. He is a member of the Scientific Council for COVID-19 of President Emmanuel Macron.

He is also since 2017 the Director of the Institute I3M (Immunology, Inflammation, Infectiology, and Microbiology) which gathers the main

stakeholders of this thematic in France in the frame of Aviesan, the French National Alliance for Life Sciences and Health.

Yazdan Yazdanpanah is currently the head of an Inserm team on decision analysis in Infectious Diseases. He is heading the Infectious Disease department at Bichat Claude Bernard Hospital, and is Professor of Medicine at Paris Diderot University, France. In May 2019, he was appointed The Chair of « The European & Developing Countries Clinical Trials Partnership » (EDCTP) board. He is the Vice-Chair of the « Global Research Collaboration for Infectious Disease Preparedness (GloPID-R) board.

Yazdan Yazdanpanah became MD from the Lille School of Medicine, France in 1996. He qualified from the same institution first as a hepato-gastro-enterologist in 1996 and next an infectious disease specialist in 2002. He obtained a Master of Science degree in epidemiology from the Harvard School of Public Health, Boston, US in 2000, and a Ph.D degree in public health from the Bordeaux School of Public Health in 2002.



### **Claudia Maria Bauzer Medeiros**

Claudia Maria Bauzer Medeiros is full professor at the Institute of Computing, University of Campinas, Unicamp, Brazil. She has received Brazilian and international awards for research, teaching, and also for her work in fostering the participation of women in IT-related activities. She is a pioneer in Latin America in research in scientific data management, and multidisciplinary research, with intense involvement in Open Science initiatives and policies.

As such, she serves in the coordination of the eScience and Data Science research program at FAPESP, the Sao Paulo Research Foundation, one of Brazil's foremost funding agencies, and which is a pioneer in Latin America in promoting Open Science policies. Under this role, she coordinated the creation of Brazil's first network of open research data repositories, which hosts data from research produced by all public universities in the state of São Paulo, in all scientific domains, covering 48 campi. She also co-coordinates FAPESP's COVID-19 DataSharing/BR open repository, which includes demographics and clinical data from Brazilian patients. She is a member of the Brazilian Academy of Sciences, of the World Academy of Sciences (TWAS) and Commander of the Brazilian Order of Scientific Merit; she holds two Dr. Honoris Causa degrees - from the University Antenor Orrego, Peru, and from the University Paris-Dauphine, France. She is a member of the Councils of the Research Data Alliance, of the WDS and of the ACM.

Web site [www.ic.unicamp.br/~cmbm](http://www.ic.unicamp.br/~cmbm)

Fapesp's Open Science site and policies [www.fapesp.br/openscience](http://www.fapesp.br/openscience)



### **Michael Jeffrey Kahn**

Professor Michael Kahn is an independent policy analyst and evaluator of research and innovation. He has served as ministerial advisor, government official, NGO director, academic and researcher, executive director of the Human Sciences Research Council, and international consultant.

He is Honorary Professor of Practice in the University of Johannesburg, Honorary Research Fellow in the Centre for Research on Evaluation, Science and Technology at Stellenbosch University, and Extraordinary Professor of the University of the Western Cape.

He is a skilled communicator and facilitator with strengths in policy, strategy, and planning, measurement, monitoring and evaluation, advising clients in government, universities, the multilateral organizations, development banks and private sector.

Professor Kahn is an Elected Member of the Academy of Science of South Africa, was Vice Chairperson of the Board of the Agriculture Research Council, serves on the advisory board of the journal Research Policy, and is a Trustee of the D G Murray Trust.

His recent publications include

1. Daven J, James W and Kahn M (2020) Investing in health security preparedness, in James W (Ed) Vital Signs. Health Security in South Africa Johannesburg: Brenthurst Foundation, p76-93.
2. Kahn M J (2021) Mapping Research and Innovation in the Republic of Mozambique. -Country Profiles in Science, Technology and Innovation Policy. Volume 9.Paris: UNESCO pp120. ISBN 978-92-3-100432-2.
3. Kahn M (2021) South Africa, in Arundel A, Athreye S and Wunsch-Vincent S (Eds) Harnessing public research for innovation in the 21st century. Cambridge: Cambridge University Press, p328-358. ISBN 978-1-108-84279-2.



### **Kiwon Jang**

Kiwon Jang is a senior researcher at Korea Bioinformatics Center (KOBIC), Korea Research Institute of Bioscience and Biotechnology (KRIBB) in South Korea. He trained as a bioinformatician with a particular focus on human genomics and machine learning. In March 2020, he launched a ‘COVID-19 research portal’ to provide the latest data and information on COVID-19 such as virus sequences, genetic variations, protein structures, literatures and web-based analysis tools. (<https://www.kobic.re.kr/covid19/>).



### **Steven E. Kern**

Steven E. Kern, PhD is Deputy Director of Quantitative Sciences at the Bill and Melinda Gates Foundation. The Quantitative Sciences group is focused on data analysis to support program strategies for therapeutic projects that the foundation funds. This effort extends across all therapeutic areas in which the foundation is involved including maternal & child health, family planning, malaria, tuberculosis, neglected tropical diseases, HIV, and pandemic preparedness. He and his team are strong advocates of making research data “always FAIR

and sometimes OPEN” to improve the impact data can have towards the problem it was collected to address, and beyond.

Prior to this, he was Global Head of Pharmacology Modeling at Novartis Pharma AG based in Basel Switzerland where he led a team focused on providing model-based drug development support to therapeutics across all stages of drug development. He joined Novartis in 2010 from the University of Utah in Salt Lake City, Utah where he was Associate Professor of Pharmaceutics, Anesthesiology, and Bioengineering, and served as co-investigator for their NIH funded Pediatric Pharmacology Research Unit. He has designed, conducted, and served as a principal investigator for clinical pharmacology studies that spanned the population from preterm infants to elderly adults.



### **Kostas Repanas**

Kostas Repanas is a policy officer at the Open Science Unit, in the Directorate General Research and Innovation (DG RTD) of the European Commission. Kostas is mainly involved in the data and interoperability aspects of the European Open Science Cloud (EOSC), as well as in advancing the Open Science agenda of the Commission. He is a long-standing advocate for Open Access, Open Data and Open Science, having previously worked for EMBL Heidelberg, the Agency for Science, Technology and Research (A-STAR) in Singapore, and the EU ESFRI landmark project ELIXIR. Kostas is also the co-founder of the Asian Open Access community (Asia OA) in collaboration with the National Institute of Informatics (NII-Japan) and the Confederation of Open Access Repositories (COAR). He holds

a PhD in Biochemistry and Crystallography from the Netherlands Cancer Institute (NKI) in Amsterdam and the Erasmus University of Rotterdam.