

Author Biography



Barend Mons is Professor of BioSemantics at the Human Genetics Department of Leiden University Medical Center and founder of the BioSemantics group. He was elected CODATA President in 2018. Next to his leading role in the research of the group, Barend plays a leading role in the international development of “data stewardship” for biomedical data. For instance, he was head-of-node of ELIXIR-NL at the Dutch Techcentre for Life Sciences (until 2015), is Integrator Life Sciences at the Netherlands eScience Center, and board member of the Leiden Center of Data Science. In 2014, Barend initiated the FAIR data initiative and in 2015, he was appointed Chair of the European Commission’s High Level Expert Group for the “European Open Science Cloud”, from which he retired by the end of 2016. Presently, Barend is co-leading the GO FAIR initiative, an initiative to kick start developments towards the Internet of FAIR data and services, which will also contribute to the implementation of components of the European Open Science Cloud. The focus of the contribution of the BioSemantics group is on developing an interoperability backbone for biomedical applications in general and rare disease in particular.

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Erik Schultes is International Science Coordinator at the GO FAIR International Support and Coordination Office where he has been working with a diverse community of stakeholders to develop FAIR data and services. Erik is also a member of the Leiden Center for Data Science at Leiden University. Erik is an evolutionary biologist with long standing interests in data-intensive research. In addition to private consulting, he has held previous academic appointments at the University of California, Los Angeles, The Whitehead Institute for Biomedical Research at the Massachusetts Institute of Technology, Duke University, and The Santa Fe Institute.

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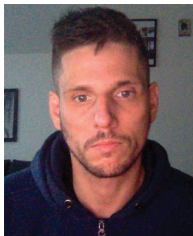
Fenghong Liu an Associate Professor at the National Science Library, Chinese Academy of Sciences (NSLC) and School of Economics and Management, University of Chinese Academy of Sciences. She received PhD degree at the Institute of Botany, CAS (IBCAS) in 2006. Before joining in NSLC in 2015, she had been the head of the library of IBCAS for four years. She is currently the Managing Editor of Data Intelligence (DI) Journal. Her research interests focus on data journals, especially whether and how data journals foster and promote data sharing awareness and culture across communities.

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Annika Jacobsen is a postdoctoral researcher at the BioSemantics group, Human Genetics Department, Leiden University Medical Center, The Netherlands. She obtained her Bachelor and Master degrees at the Technical University of Denmark in 2009 and 2012, and her PhD degree at the Vrije Universiteit Amsterdam in 2019. Her research interests are to create interoperable FAIR rare disease data with the aim to learn more about cause, diagnosis and treatment.

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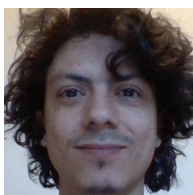
Ricardo de Miranda Azevedo is an independent and pragmatic researcher with a background in psychology and clinical epidemiology who is happy to work in multidisciplinary settings. He is a great multilingual communicator who is enthusiastic about scientific research but also for computers and teaching different topics. He is often labeled as a creative mind with a problem-solver attitude.

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Nick Juty is a Senior Research Technical Manager in the eScience Lab, based in the Department of Computer Science at The University of Manchester. He is involved in numerous EU projects relating to aspects of FAIR and interoperability, particularly with respect to identifier systems and metadata. Nick previously worked at EMBL-EBI where he helped create the identifiers.org identifier resolution system. Nick holds a PhD in Biochemistry from the University of Southampton.

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Dominique Batista is a young developer specialized in creating tools and software for scientific researchers and academics. His current activities focus on delivering clean, tested and documented open-source code to help structuring metadata over the Web. Dominique's side activities focus on producing knowledge and scientific papers as well as representing the team in international conferences. He is passionate about computer (hardware, Web), science (biology and physics), video games and much more.

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Simon J. Coles is Professor of Structural Chemistry at the University of Southampton and Director of the UK National Crystallography Service. He has promoted open approaches to research and education in Chemistry for many years and is now also Director of the UK Physical Sciences Data-science Service.

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Ronald Cornet holds a position as associate professor at the department of Medical Informatics in the Amsterdam Public Health Research Institute, Amsterdam UMC. His research focuses on semantic interoperability, both from a technical perspective and from a user's point of view, including natural language processing. Ronald is involved in health care information standardization, among others as member of the Dutch, European (CEN) and global (ISO) standardization committees on health informatics. He is also involved in SNOMED International, which is responsible for maintenance and further development of SNOMED CT. He chairs the IMIA working group on Language and Meaning in Biomedicine, and participates in various international projects including FAIR4Health and European Joint Programme Rare Diseases (EJP-RD).

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Mélanie Courtot is a Metadata Standards coordinator at EMBL-EBI, where her team designs tools to streamline multi-omics submissions and develops integrated metadata strategies across the institute's archival resources and other projects such as FAIRPlus and CINECA, focusing on semantic enrichment and harmonization for pharmaceutical and cohort data, respectively. In the context of GA4GH which she joined in 2016, Mélanie co-leads groups working on data access and encoding as well as clinical and phenotypic standards.

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Mercè Crosas is Harvard University's Research Data Officer, with Harvard University Information Technology (HUIT), and Chief Data Science and Technology Officer at Harvard's Institute for Quantitative Social Science (IQSS). In her role at HUIT, Dr. Crosas provides leadership to mature Harvard's data management and governance practices. She works in close collaboration with key constituencies in Research, Information Technology, and the Library to coordinate support for the data lifecycle and guide university policy, process, and procedures for research data. Dr. Crosas brings to this role a wealth of experience in data management architecture and international community data standards as well as the vision to make data more accessible for research while preserving privacy.

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Michel Dumontier is the Distinguished Professor of Data Science at Maastricht University and co-founder of the FAIR (Findable, Accessible, Interoperable and Reusable) data principles. His research focuses on the development of computational methods for scalable and responsible discovery science. Previously at Stanford University, Dr. Dumontier now leads the interfaculty Institute of Data Science at Maastricht University to develop socio-technological systems for accelerating scientific discovery, improving human health and well-being, and empowering communities with ethical data-driven decision making.

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Carole Goble is Professor of Computer Science at The University of Manchester. Over the past 25 years Carole has pursued research interests in the acceleration of FAIR scientific innovation through: distributed computing, workflows and automation; knowledge management and the Semantic Web; social, virtual environments; software engineering for scientific software; and new models of scholarship for data-intensive science. Carole has served on numerous committees and currently serves in the G7 Open Science Working Group as the UK expert. In 2008 she was awarded the Microsoft Jim Gray e-Science award for contributions to e-Science and in 2010 was elected a Fellow of the Royal Academy of Engineering. In 2014 she was awarded the Commander of the Order of the British Empire for services to Science.

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Giancarlo Guizzardi is currently a professor of computer science and head of the Conceptual and Cognitive Modeling Research Group (CORE) at the Free University of Bozen-Bolzano, Italy. He has a PhD in Computer Science (with the highest distinction) from the University of Twente, The Netherlands. He has been working for more than two decades in the interplay between formal and applied ontology, cognitive science, philosophical logics, linguistics, and computer science (in particular, in the areas of conceptual modeling, enterprise modeling and knowledge representation). He has published *circa* 270 papers, many of which have received best paper awards in important conferences. He has also played a multitude of roles in key conferences in the field (e.g., general chair, program committee chair, and keynote speaker). Finally, he is an associate editor for the Applied Ontology journal, member of a number of international journal editorial boards, and of the Advisory Board of the International Association for Ontology and its Applications (IAOA).

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Ali Hasnain is a Lecturer and Researcher at Insight Centre for Data Analytics, National University of Ireland Galway (NUIG). Before joining DERI, Hasnain completed a master's degree in "Engineering and Management of Information Systems" from Royal Institute of Technology, KTH, Stockholm, Sweden. He received another master's degree from the same University in "Project Management and Operational Development". Career spans over five years of experience in Software industry and more than a decade in academia at various positions. It includes work experience as Lecturer, Senior Researcher, Project Manager and lead scientist. Teaching responsibilities at NUI Galway includes mentoring and co-supervising master's and PhD students. With strong scientific publishing record the list of selected Scientific Publications in the Field of Computing, Data Analytics, Software Engineering and Data Science positively reviewed and published at world renowned Journals and conferences can be seen at: <https://goo.gl/eYNoas> (around 650 citations). Ali Hasnain is the Program Committee Member of international conferences and workshops e.g. VOILA-ISWC and KESW. He remained involved in organizing workshops and tutorial at K-Cap 2015 and SWAT4LS 2015–2018 for international audiences. His current research interests include: FAIR DATA, Open Data, Big Data, Semantic Models, Data Cataloging/Linking, Visual Interfaces and Data Integration. ORCID: 0000-0003-4014-4394



Kristina Hettne, PhD, is a Digital Scholarship Librarian at the Centre for Digital Scholarship, Leiden University Libraries in Leiden, The Netherlands. At the Centre, she helps researchers navigate Open Science and shape the future of research data management. She is the Centre's liaison with GO FAIR and part of the FAIR Convergence Matrix development team for optimizing the reuse of existing FAIR-related resources. She obtained her PhD degree in bioinformatics of toxicogenomics from the University of Maastricht in 2012. She is a review editor for "Frontiers in Big Data", member of the Advisory Board of the Wiley journal *Genetics & Genomics Next*, and co-author of more than 30 research publications.

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Jaap Heringa is full professor of Bioinformatics and director of the Centre for Integrative Bioinformatics (IBIVU) at Vrije Universiteit of Amsterdam, The Netherlands. Heringa has been scientific co-director of the Netherlands Bioinformatics Centre (NBIC) from 2009–2013. He has served as deputy Head of Node of ELIXIR-NL from 2013–2016, and since April 2016 as its Head of Node. Since 2014 he has been director of the Netherlands Bioinformatics and Systems Biology Research School (BioSB) and as of January 2016 he has been scientific lead of the Dutch Techcentre for Life Sciences (DTL). Heringa has been executive editor of *Molecular Data Science* since 2018 and became head of the Department of Computer Science at Vrije Universiteit in that same year. His areas of research are Bioinformatics and Systems Biology, while current research interests revolve around formal modeling strategies, new sequence analysis strategies, protein structure and interaction prediction, cancer-related data integration, and semantic Web-based data stewardship and data-tools interoperability.
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Rob Hooft is Manager of the Dutch tasks in the European ELIXIR infrastructure for life science data, at the Dutch Techcenter for Life Sciences (DTL). After working for many years in the industry, Rob moved back to the academic world and joined the Netherlands center for Bioinformatics, NBIC, as CTO for the service-directed program. Via a two-year excursion to the Netherlands eScience Center from where he ran the data program of DTL he is now working for DTL itself. Rob has been building up a body of knowledge on FAIR research data stewardship since early 2014. Rob also represents ELIXIR relations in the Research Data Alliance.
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Melanie Imming authored reports on FAIR Data and Data Stewardship practices in The Netherlands for SURF and the Dutch National Contact Point for Research Data Management, LCRDM. As a consultant with a strong international network in the area of Open Science, FAIR Data and Digital Cultural Heritage, Melanie is experienced in project management and engaging stakeholders from different domains, and a known advocate for Open Science practices.
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Keith Jeffery is an independent consultant working on EPOS, ENVRIplus and ENVRIFAIR as well as on advanced CLOUD computing and Virtual research Environments. He is past Director IT at STFC with 360,000 users, 1,100 servers and 140 staff. Keith holds three honorary visiting professorships, is a Fellow of the Geological Society and the British Computer Society, a Chartered Engineer & IT Professional and an Honorary Fellow of the Irish Computer Society. Keith is past-President of ERCIM and euroCRIS, and serves on international expert groups, conference boards and assessment panels. He had advised government on IT. He chaired the EC Expert Groups on GRIDs and on CLOUD Computing.
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Rajaram Kaliyaperumal was born in Pondicherry, India. He received a B.Tech degree in Biomedical Engineering from Pondicherry University, India in 2008 and an M.Sc degree in Biomedical Engineering from Linköping University, Sweden in 2011. In 2012 he joined the department of Computer and Information Science, Linköping University as a software engineer. During this time he developed methods and tools to align and repair ontologies. In 2013 he joined the Biosemantics group, Leiden, in the Netherlands as a software developer. His current research activities include investigating the use of semantic Web technology in the context of FAIR data and developing prototypes to demonstrate the use of FAIR data.
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Martijn Kersloot is a PhD candidate at the Department of Medical Informatics in the Amsterdam UMC in collaboration with Electronic Data Capture platform Castor EDC. He has a background in Medical Informatics and his research focuses on the creation of a scalable solution that will aid in the standardization of medical research data.

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Tobias Kuhn is an assistant professor at the Computer Science department of the VU University Amsterdam. After receiving his PhD at the Institute of Computational Linguistics of the University of Zurich in 2010, he worked at the University of Malta, Yale University, and ETH Zurich. His research interests span fields including knowledge representation, controlled natural language, socio-technical systems, and scholarly communication. His recent work focuses on the approach of nanopublications, how cryptographic methods and provenance modelling can support trust and reliability, and how this can support the initiatives around the FAIR principles for data management.

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Ignasi Labastida is currently the work at the Head of the Research Unit at the University of Barcelona's Learning and Research Resources Centre (CRAI) where he also leads the Office for the Dissemination of Knowledge. He is currently chairing the Board of SPARC Europe and he is a member of the Steering Committee of the Info and Open Access Policy Group at the League of European Research Universities (LERU). He is the co-author of the LERU Roadmap for Research Data and the LERU Roadmap on Open Science. He has participated in several research projects including LEARN, a EU H2020 project focused on helping research performing institutions in managing their research data.

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Barbara Magagna holding a master degree in landscape planning and in geoinformatics, has 24 years of experience working in the field of GIS, landscape ecology modelling and database management for projects operating at different scales. Her interests and formation moved in the last years also towards ontology engineering and process facilitation, abilities she could already apply in several national and European semantic projects. She had been working for the University of Natural Resources and Applied Life Sciences, the University of Vienna and since December 2007 for the Federal Environment Agency (Umweltbundesamt GmbH) where she undertakes the function of a semantic analyst and database designer. She was involved in FP7 and H2020 projects as facilitator in the development process of terminologies like SERONTO and EnvThes. She has experience as work package lead related to data management, in the design of UML models and XML schemas in the air quality data reporting area, in the design of semantic models in projects related to Environmental Research Infrastructures (ENVRI).

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Peter McQuilton holds a 1st class BSc (Hons) degree in Genetics from the University of Leeds (2000) and a PhD (2004) in Drosophila neurodevelopment from the University of Cambridge. Peter has spent over 15 years working in the fields of bioinformatics, biocuration and data wrangling, first as a genetic literature curator at FlyBase, the premier database on drosophila genes and genomes, and then as part of the Data Readiness Group at the Oxford e-Research Centre. As part of the Data Readiness Group, Peter leads the FAIRsharing project. FAIRsharing is a manually curated, searchable portal of interlinked standards, databases and policies, from all domains.

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Natalie Meyers is an E-Research librarian at University of Notre Dame's Navari Family Center for Digital Scholarship where she helps pioneer and provide research data consulting services, including more in-depth data management services in support of grant-funded research. She serves as an ambassador and advisor to groups and individuals regarding data and digital content management. She provides advice & works with units across campus and externally to provide collaborative, team-based support for reproducible research, data management and software preservation needs, as well as data and metadata services for the Navari Center for Digital Scholarship.

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Annalisa Montesanti is the Program Manager at the Health Research Board (HRB). She is responsible for developing and managing a portfolio for health research careers in order to develop a coordinated approach to building capacity in health research in Ireland. She has developed a framework promoting the training, support and career development of academic researchers and health practitioners with the long-term goal of training individuals as collaborative researcher in order to generate ideas and undertake research, drive the integration of research and evidence into policy and practice, thus improving decision-making and, ultimately, health outcomes and creating a wider impact in society. Annalisa is also deeply involved in promoting open science, FAIR data and research data stewardship through several international collaborations. Annalisa had many years of experience in scientific research in Italy, England and Ireland. She has a BSc from Palermo University in Italy and a PhD in cancer biology from the Institute of Molecular Medicine in Oxford, UK.

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Mirjam van Reisen is Professor International Relations, Innovation and Care at Tilburg University and Professor Computing for Society at Leiden Centre for Data Science, at the University of Leiden. Van Reisen is Research Leader of the Globalization, Accessibility, Innovation and Care (GAIC) network. Van Reisen is the Coordinator of the Go-FAIR Implementation Network Africa. Van Reisen is a member of the Dutch Advisory Council on International Affairs (AIV) and Chair of the Development Assistance Committee (COS). Van Reisen leads the organisation EEPA in Brussels. She is a member of the Board of Philips Foundation and the SNV Netherlands Development Organisation. Van Reisen received the Golden Image Award in 2012 by President Ellen Johnson Sirleaf.

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Philippe Rocca-Serra, after an engineering degree from University of Rennes, received his PhD in Molecular Genetics from University of Bordeaux. He worked at EMBL-EBI in helping establish the European microarray archive. He has 10 years of practice in data management and has been an active member of several standardization efforts, aiming at promoting open data and open science vision. He is technical coordinator of the ISA project, part of the OBO Foundry editorial board and participates in resource development as part of the OBI project.

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Robert Pergl is an Associate Professor at Department of Software Engineering, Faculty of Information Technologies of Czech Technical University in Prague, Czech Republic, where he founded “Centre for Conceptual Modelling and Implementation”, a group focusing on research, development and applications of methods and tools for ontological engineering, enterprise engineering, software engineering and data stewardship. Robert Pergl is a National Node Committee member of ELIXIR Czech Republic. He is a member of several GO FAIR initiatives and projects and together with Rob Hoofit he leads the Data Stewardship Wizard development. Contribution: Leading the authors’ team and authoring process, communications author, copy-editing and quality assurance, Data Stewardship Wizard details.

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Susanna-Assunta Sansone is an Associate Director, Associate Professor and Principal Investigator at the Oxford e-Research Centre, part of the Department of Engineering Science at the University of Oxford. She is one of the authors of the FAIR principles and an active contributor to a variety of community-driven FAIR-enabling efforts. Her group researches and develops methods and tools to improve data reuse, for data transparency, research integrity and the evolution of scholarly publishing: <https://sansonegroup.eng.ox.ac.uk>.

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Luiz Olavo Bonino da Silva Santos is the International Technology Coordinator of the GO FAIR International Support and Coordination Office, and Associate Professor of the BioSemantics group at the Leiden University Medical Centre in Leiden, The Netherlands. His background is in ontology-driven conceptual modelling, semantic interoperability, service-oriented computing, requirements engineering and context-aware computing. In the last five years Luiz has been involved in a number of activities to realize the FAIR principles, including the development of a number of technologies and tools to support making, publishing, indexing, searching and annotating FAIR (meta)data.

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In a 20-year career specializing in metadata, ontologies and discovery, **Juliane Schneider** has worked in start-ups, on Wall Street in an insurance library, at New York University medical center, for EBSCO publishing, and at The University California, San Diego in the Research Data Curation Program. Her longest stint at any job was the six years she spent at Countway Library as the Metadata Librarian, and now she has returned to Harvard as the Team Lead/Lead Data Curator for Harvard Catalyst.

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George O. Strawn is currently the director of the Board on Research Data and Information at the National Academies of Sciences, Engineering, and Medicine where he focuses on Open Science and FAIR data. Prior to joining the Academies, Dr. Strawn was the director of the National Coordination Office (NCO) for the Networking and Information Technology Research and Development (NITRD) Program and co-chair of the NITRD interagency committee.

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Mark Thompson is a senior research scientist in the Biosemantics group at the Human Genetics department of Leiden University Medical Centre. He obtained a PhD in Computer Science from the University of Amsterdam in 2012. He has expertise in hardware and software architecture (co-) design, data management, data modeling, FAIR data infrastructure and computational aspects of knowledge discovery.

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Tobias Weigel is working at the German Climate Computing Center (DKRZ) in the area of e-infrastructures. Tobias has worked extensively on Digital Object and Persistent Identifier services in multiple contexts, including community cyberinfrastructures (ESGF, ENVRI) and cross-disciplinary infrastructures (EUDAT, EOSC). He has co-chaired multiple working groups of the Research Data Alliance (RDA) to convene on technical recommendations in the area of identifiers, metadata and related e-infrastructures services. Tobias is editorial board member of the CODATA Data Science Journal and member of the RDA Technical Advisory Board. Tobias holds a PhD from University of Hamburg in computer science.

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Mark D. Wilkinson is Fundacion BBVA Chair in Biotechnology and Isaac Peral Distinguished Researcher at the Center for Plant Biotechnology and Genomics, Technical University of Madrid. For the past 15 years, his laboratory has focused on designing biomedical data/tool representation, discovery, and automated reuse infrastructures - what would now be called “FAIR”. He is lead author of the primary FAIR Data Principles paper, and lead author on the first paper describing a reference implementation of those principles over legacy data. He is a founding member of the FAIR Metrics Authorship Group, tasked with defining the precise, measurable behaviors that FAIR resources should exhibit. Beyond FAIR, his laboratory also studies the application of Artificial Intelligence techniques to the problem of microbiome engineering.

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Egon L. Willighagen is applying cheminformatics and chemometrics to biological questions as Assistant Professor at Maastricht University. He has been promoting Open Science for many years and is Editor-in-Chief of the *Journal of Cheminformatics*.

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Peter Wittenburg was Executive Director of Research Data Alliance (RDA) Europe, Member of RDA Technical Advisory Board, and Scientific Coordinator of European Data Infrastructure (EUDAT). He set up and led the Technical Group with about 30 experts at Max Planck Institute (MPI) for Psycholinguistics and then led the Language Archiving Group with about 25 experts. Since 2000 he has played leading roles in a variety of European (funded by the European Commission) and national projects (funded by MPS, DFG, BMBF, NWO 23) and ISO initiatives (ISO TC37/SC4). He won the Heinz Billing Award of the MPS for the advancement of scientific computation in 2011 and received an honorary doctorate from University Tübingen in 2013.

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Marco Roos is assistant professor and group leader of the Biosemantics group of the Leiden University Medical Centre (Human Genetics Department). The group is known for co-founding and advocating the FAIR data principles. His research focus is on making state-of-the-art computer science applicable to enhance biomedical research (e-Science), particularly the application of computational knowledge discovery and linked data techniques to address translational research challenges of rare human diseases. At an international level, Marco is focused on the implementation of FAIR principles to create a powerful substrate and worldwide robust infrastructure for knowledge discovery across distributed rare disease data resources.

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Sarala Wimalaratne spent the last 10 years at the European Bioinformatics Institute (EMBL-EBI) working with multiple data integration and infrastructure projects. During her time at the EMBL-EBI, she led the Identifiers.org resource, which provides stable identifier resolution for life science data and beyond. She was also involved in the Data Commons Pilot Phase Consortium on globally unique identifiers (GUIDs), the Elixir Interoperability Platform on BioSchemas and Identifiers, the FORCE11 Data Citation Implementation Pilot on Identifiers and the EU FREYA Project on identifier services. From September 2019, she will be joining DataCite as Head of Infrastructure Services.

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Stian Soiland-Reyes is a Technical Architect in the eScience Lab, based in the Department of Computer Science at The University of Manchester. Since 2006 he has worked as a software engineer and researcher focusing on reproducibility, scientific workflows, interoperability, linked data, metadata and open science. He is a persistent advocate of Open Scholarly Communication, and is on the leadership team of the Common Workflow Language and on the Project Management Committee of several open source projects at the Apache Software Foundation. He co-created the Research Object model, contributed to the W3C provenance model PROV-O and multiple Linked Data initiatives. He is co-chair of the Research Object Crate team.

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John Kunze is an Identifier Systems Architect at the California Digital Library. With a background in computer science and mathematics, he wrote BSD Unix software that comes pre-installed with Mac and Linux systems. He created the ARK identifier scheme, the N2T.net scheme-agnostic resolver, and contributed heavily to Internet standards for URLs (RFC1736, RFC1625, RFC2056), archiving (BagIt - RFC8493), Web archiving (WARC), and Dublin Core metadata (RFC2413, RFC2731).

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Tim Clark is Associate Professor of Public Health Sciences, Associate Professor of Neurology (by courtesy), and Associate Research Director for Neuroinformatics in the Data Science Institute, at the University of Virginia. He holds a PhD in Computer Science from The University of Manchester. His research interests include biomedical knowledge representation, computational models of evidence, cloud computing, and neuroscience.

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Ulrich Schwardmann is deputy leader of the eScience working group of the GWDG, a joint compute and IT competence center of the university and the Max Planck Society, and leads there the data management activities of GWDG. He has a doctoral degree in mathematics and has a long lasting background in scientific computing. Ulrich Schwardmann is working with persistent identifiers as enabling technology for research data management since almost ten years. He is speaker of the management board of ePIC, the Persistent Identifier Consortium for eResearch, and is DONA-MPA System Administrator for GWDG. His current research interests include Digital Object Interface Protocol, PID Information Types and Data Type Registration, PID profiles and policies.

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Jens Klump leads the Geoscience Analytics Team in the Mineral Resources Unit of the Commonwealth Scientific and Industrial Research Organization (CSIRO). Jens' work focuses on data in minerals exploration, investigating the digital value chain from data capture to data analysis and decision making. This value chain includes automated data and metadata capture, sensor data integration, both in the field and in the laboratory, data processing workflows, and data analysis by statistical methods, machine learning and numerical modelling. Jens obtained degrees in geology and oceanography from the University of Cape Town, South Africa, and received his PhD in marine geology from the University of Bremen, Germany.

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Sofiane Bendoukha is a computer scientist at the German Climate Computing Center (DKRZ) within the data management group. For years, Sofiane has been working on scientific workflow management systems, service orchestration and workflow modeling. After joining DKRZ, he focused more on the development of software tools for the climate community related to the management of persistent identifiers and Handle servers in the EUDAT project. Currently, Sofiane is a deputy leader in the EOSC-HUB project. He is responsible of designing, implementing and deploying reliable and user-friendly compute services to scientists related to the climate domain. Sofiane holds a PhD in computer science from the University of Hamburg, Germany.

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Rob Quick is the Associate Director of the Science Gateways Research Center with the Pervasive Technology Institute at Indiana University. Rob has been working with interoperability of international cyberinfrastructure for more than 15 years. This includes holding the position of Chief Operations Officer for the Open Science Grid and managing the XSEDE Science Gateways Support Services. In recent years he has turned his focus from interoperability of research computing infrastructure to data interoperability. This includes NSF funding (NSF #1659310 and #1839013) to create and operate the Robust Persistent Identification of Data (RPID) testbed which provides a set of testbed services to allow researcher to implement the FAIR principles within the Digital Object Architecture. Rob holds a degree in Physics from Purdue University.

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Annalisa Landi, PharmD, II level post-graduate Master in Regulatory Sciences "G.Benzi" at University of Pavia, Researcher at Fondazione per la Ricerca Farmacologica Gianni Benzi Onlus. She is involved in scientific and regulatory activities, in particular related to data protection and confidentiality, plan and management of patient registries and medicine databases management. ENCePP WG3 member.

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Viviana Giannuzzi, PharmD, PhD in pharmacology, post-graduate master in Clinical Research of Medicines, Senior Researcher at Fondazione per la Ricerca Farmacologica Gianni Benzi Onlus and Head of the Research Department. Her main areas of expertise are: ethics and regulatory, non-clinical and clinical research, clinical studies application, pharmacology, orphan medicines and paediatric research. She is patient representative at Paediatric Committee, European Medicine Agency (EMA), and member of WP4 Ethics Working Group of EnprEMA.
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Christopher Brewster is a Senior Scientist in the Data Science group at TNO, and Professor of Emerging Technologies at the Institute for Data Science, Maastricht University, The Netherlands. His PhD was in ontology learning from text from the University of Sheffield. His main research interests are the application of semantic technologies and more generally artificial intelligence (AI) to supply chains and the agri-food sector, and the ethical and social implications of the widespread use of data science and AI.
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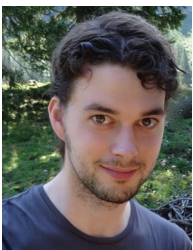
Jack Verhoosel is a Senior Scientist at TNO and is part of the Data Science department within TNO. His group focuses on semantic interoperability, i.e., the efficient and effective use of information technology (IT) for the cooperation and information sharing between organizations. He specializes in semantic technology, artificial intelligence (AI) reasoning and data analytics. Research topics include (1) knowledge modelling in ontologies, (2) semantic Web and reasoning technology for data integration and (3) data analytics technology for big data applications. He applies his knowledge in various industry sectors, among others agriculture, industry, defence and the electronic government domain.
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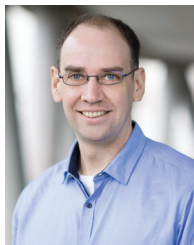
Ananya Choudhury is a researcher and PhD Student at Clinical Data Science Group, Maastrro Clinic, Maastricht University. Her research focuses on methods and infrastructure of privacy preserving distributed learning on clinical data, tools and methods for data FAIR-ification and learning models on FAIR data for improving patient care.

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Andre Dekker is a board-certified medical physicist at MAASTRO Clinic and full professor at Maastricht UMC+ and Maastricht University where he holds the chair “Clinical Data Science”. His research focuses on three main themes: 1) building global FAIR data sharing infrastructures; 2) machine learning outcome prediction models from the data; 3) applying outcome prediction models to improve lives of patients. The main scientific breakthrough has been the development of a Semantic Web and ontology based data sharing and distributed learning infrastructure that does not require data to leave the hospital. This has reduced many of the ethical and other barriers to share data.

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Sarah Cohen-Boulakia is a full Professor at the Laboratoire de Recherche en Informatique at Universite Paris-Sud. She holds a PhD in Computer Science and a Habilitation from the same university. She has been working for fifteen years in multi-disciplinary groups involving computer scientists and biologists of various domains. She spent two years as a postdoctoral researcher at the University of Pennsylvania, USA and 18 months at the Institute of Computational Biology (IBC) of Montpellier, France. Dr. Cohen-Boulakia’s research interests include provenance and design of scientific workflows, reproducibility of scientific experiments, integration, querying and ranking in the context of biological and biomedical databases. She currently co-animates a National working group on reproducibility of scientific experiments and she is involved in the European Research Infrastructure ELIXIR (<https://www.elixir-europe.org>).

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Daniel Garijo is a computer scientist at the Information Sciences Institute of the University of Southern California. His research activities focus on e-Science and the Semantic Web, specifically on how to increase the understandability of software and scientific workflows using their associated provenance, metadata and intermediate results. Daniel was a member of the W3C Provenance Working Group to develop a standard for provenance on the Web, and he is currently collaborating with domain scientists to ease the description and composition of software in environmental and social sciences.

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Michael R. Crusoe is one of the co-founders of the Common Workflow Language project and the CWL Project Lead. His facilitation, technical contributions, and training on behalf of CWL draw from his time as the former lead developer of C. Titus Brown's k-h-mer project, his previous career as a sysadmin and programmer, and his experiences in various Free and Open Source Software communities. This is not Michael's first time working on a standards project as he was the technical author of the International Labour Organization's Seafarers' Identity Card (2003) standard which is in force and ratified by 32 countries. Currently based in Berlin, Germany; Michael has been living in Europe for the last 4 years where he has enjoyed partnering with ELIXIR, ASTRON, and the EOSCPilot to build collaborations across the continent and across the world. ORCID: 0000-0002-2961-9670



Kristian Peters is currently working at the Leibniz Institute of Plant Biochemistry. He is part of the Germany network of bioinformatic infrastructures (de.NBI) and is a member of the GoFAIR metabolomics implementation network and the societies NBS and BLAM e.V. which focus on bryophyte biology and ecology. As he has studied both Information Technology and Biology his research focus is mainly on interdisciplinarity and integrating the research fields biochemistry, bioinformatics and ecology. His expertise in data integration covers a wide range of topics, including cloud e-infrastructures, statistics, machine learning, chemical ecology and ecometabolomics, targeted and untargeted metabolomics, plant and vegetation ecology, bryophyte biology, macro- and microscopy and climate change biology. His current research activities focus on the integrative data analysis and characterisation of compound classes of rare species in ecological contexts, creating scientific computational workflows for use cases in ecometabolomics and biomedicine, promoting the reproducibility and interoperability of software tools and the adoption of standardized research objects and formats. ORCID: 0000-0002-4321-0257



Daniel Schober, a trained neurobiologist, did his PhD in medical knowledge engineering at Charité Hospital, Berlin. He mainly works in the areas of symbolic artificial intelligence, ontology engineering, policy management and data standard development. Aside his contributions to a multitude of description logics ontologies, he created best practices for the OBO Foundry (naming conventions) and developed open access XML standards for nuclear magnetic resonance data (nmrML). Foundational ontology research is done on the scale-dependency of ontologic top level categories, i.e. towards advanced physics concepts that emerge on the micro- and macrocosmic scale. Currently he investigates the impact of semantic and syntactic data standards in contribution to FAIR Data, in particular to Galaxy computational workflows. He has worked at the European Bioinformatics Institute in Cambridge, UK, then moved to IMBI Freiburg working on medical data integration and until recently, he worked in the mass spectrometry and bioinformatics department of the Leibniz Institute for Plant Biochemistry in Halle, Germany.
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Larry Lannom is Director of Information Services and Vice President at the Corporation for National Research Initiatives (CNRI), where he works with organizations in both the public and private sectors to develop experimental and pilot applications of advanced networking and information management technologies. Mr Lannom's current work is focused on CNRI's Digital Object Architecture, which is based on the concept of the digital object, a uniform approach to representing digital information across computing and application environments, both now and into the future. Mr. Lannom joined CNRI in September of 1996. Prior to that, he was a Technical Director at DynCorp, Inc., where he served as an advisor on digital library research for the ISTO, CSTO, and ITO offices of the US Defense Advanced Research Projects Agency (DARPA), including initiating the Computer Science Technical Reports (CS-TR) project, DARPA's first effort in the digital library area. In addition, he managed the development of internal information systems for DARPA. Originally trained as a librarian, his earlier work included reference book publishing and information retrieval research.
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Dimitris Koureas is currently head of the department for the development of international biodiversity research infrastructures at Naturalis Biodiversity Center, Coordinator of the new pan-European Research Infrastructure DiSSCo and chair of the COST Action Mobilize. He holds a PhD in plant systematics with post-doctoral expertise acquired in biodiversity informatics/e-taxonomy. He participates as a senior manager in many European projects in the areas of biodiversity data and infrastructures. He is former chair of the Biodiversity Information Standards (TDWG) organization and current member of the Technical Advisory Board of the Research Data Alliance (RDA). He is an invited lecturer on biodiversity infrastructures in European universities.
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Alex Hardisty is Director of Informatics Projects in the School of Computer Science and Informatics at Cardiff University, where his leadership contributions in environmental, biodiversity and ecological informatics have spanned engineering of large-scale distributed computing systems (e-Infrastructures), curating scientific information in knowledge infrastructures, virtual research environments, and socio-technical issues of new technology adoption. Alex leads work in the EU Horizon 2020 ICEDIG project on “innovation and consolidation for large scale digitization of natural heritage”, a part of the Distributed System of Scientific Collections (DiSSCo) programme, where he is presently designing the global architecture for Digital Specimens and Collections. As a technical innovator, Alex has previously been responsible for the Biodiversity Virtual e-Laboratory (BioVeL), the Reference Model for research infrastructures for environmental sciences (ENVRI RM), and the “Bari Manifesto” for an interoperability framework for Essential Biodiversity Variables (EBV). Alex is a Chartered Information Systems Professional Fellow of the British Computer Society (BCS) and Member of the Chartered Management Institute (CMI). Prior to joining Cardiff University in 2002, Alex worked as a consultant, systems engineer and software programmer in the telecommunications and defence industries.
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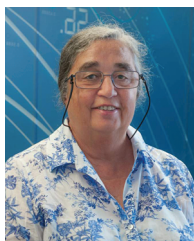
Stuart J. Chalk is applying semantic data modelling approaches to represent experiment and computational scientific data. He is an advocate of open and FAIR data and a Titular member of the IUPAC Committee on Publications and Chemical Data Standards (CPCDS).
ORCID: 0000-0002-0703-7776



Shelley Stall is the Senior Director for the American Geophysical Union’s Data Leadership Program. She works with AGU’s members, their organizations, and the broader research community to improve data and digital object practices with the ultimate goal of elevating how research data is managed and valued. Shelley’s recent work includes being the program manager for the Enabling FAIR Data project engaging over 300 stakeholders in the Earth, space, and environmental sciences to make data open and FAIR targeting the publishing and repository communities to change practices by no longer archiving data in the supplemental information of a paper but instead depositing the data supporting the research into a trusted repository where it can be discovered, managed, and preserved.
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Leah R. McEwen is the Chemistry Librarian at Cornell University, where she manages digital library and information services for chemistry and related research and learning communities. She is an active volunteer in many chemistry organizations and is currently chair-elect of the Committee on Publications and Cheminformatics Data Standards of the International Union of Pure and Applied Chemistry. For the past several years, she has been building up a global community of stakeholders involved in chemical data publishing and sharing, including researchers, publishers, librarians, repositories, and software developers. She has worked across sectors and disciplines, connecting with other scientific unions and data initiatives to identify gaps and develop collective workflows to facilitate FAIR data exchange across the chemistry enterprise and beyond.
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Lesley Wyborn is an Adjunct Fellow with the National Computational Infrastructure at the Australian National University and the Australian Research Data Commons. She worked for Geoscience Australia from 1972 to 2014 in both scientific research (geochemistry and mineral systems) and in geoscientific data management. In geoinformatics her main interests are developing international standards that support the integration of Earth science datasets into transdisciplinary research projects and in developing seamless high-performance data sets that can be used in High Performance Computing environments. She is currently Chair of the Australian Academy of Science “National Data in Science Committee”. She was awarded the Australian Government Public Service Medal in 2014, the 2015 Geological Society of America Career Achievement Award in Geoinformatics and the 2019 US Earth Science Information Partners Martha Maiden Award.
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Nancy J. Hoebelheinrich is a founder and principal of Knowledge Motifs LLC, a company focused upon providing consulting, project management / coordination, grant writing and educational / training services to business, non-profit, and governmental organizations needing assistance in organizing, managing, archiving and preserving data. She has been involved in a number of projects focused upon managing data in leadership, coordination, community engagement, and education / training roles as both a volunteer and a contractor. Key projects including the Enabling FAIR Data project where she served as Co-Chair of the Technical Adoption Group for training on FAIR data, and the ESIP-hosted Data Management Training Clearinghouse where she is currently serving as Editor, and as Co-Investigator and Project Coordinator on a 3 year National Leadership Grant from the Institute of Museum and Library Services.
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Ian Bruno is Head of Strategic Partnerships at the Cambridge Crystallographic Data Centre (CCDC) which has been managing and curating scientific data for over 50 years. Ian himself has over 25 years’ experience in the world of Chemistry and Informatics. He is an active participant in research data activities and initiatives through the Research Data Alliance and the World Data System and is involved in data-related activities of the International Union of Pure and Applied Chemistry (IUPAC). He is Secretary to the InChI Trust which oversees the maintenance and development of the IUPAC International Chemical Identifier. Ian’s various roles at the CCDC have included software development and management of technical and scientific teams and projects. In his current role, he is responsible for shaping the CCDC’s interactions with wider research data activities and communities.
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Ramon Granell is a researcher at the Oxford e-Research Centre currently working as a knowledge engineer with Professor Susanna-Assunta Sansone in the area of data management for biomedical sciences. He applies data analytic techniques to enrich data/publications repositories and platforms utilised under the FAIR (Findable, Accessible, Interoperable and Reusable) principle. Ramon has been working at the Oxford e-Research Centre since 2010, investigating in different areas such as energy analytics and computational linguistics. Before that, he worked at Department of computer Science, University of Oxford. He holds a Computer Science degree and ML master from the Universidad Politecnica de Valencia (Spain).
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Allyson Lister completed a BA (1997) in Biology and Ancient Mediterranean Civilisations from Rice University, an MSc (1999) in Computational Biology from the University of York and a PhD (2012) in Computer Science from Newcastle University. In 1999, she joined the European Bioinformatics Institute as a Software Engineer for UniProtKB, a protein sequence database. In 2006, she joined Newcastle University as a full-time Research Associate while completing her PhD in semantic data integration. Between 2012 and 2014, she also worked for the University of Manchester on various short-term ontology development projects. Allyson moved to the Oxford e-Research Centre in 2015 where she is currently working on the FAIRsharing project.
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Hugh Shanahan is a Professor of Bioinformatics in Centre for Systems and Synthetic Biology and Department of Computer Science at the University of London. His research interests include the analysis of transcriptomic data and the inference of regulatory gene networks; Protein-DNA interactions; expertise is in computational biology and statistics.
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Milo Thurston is currently one of the developers of BioSharing, as well as working on TeSS in collaboration with colleagues in Manchester. Previously, he developed the OBOE system for managing services to be used by Scratchpads, and prior to that was the Scientific Computing Support Specialist for Climateprediction.net responsible for server maintenance, software and infrastructure development. His scientific background is in biology and bioinformatics, and he is experienced in Linux system administration; he has a degree in microbiology and genetics from Dundee University, a D.Phil. in virology from Oxford University (supervised by the late Bill Hamilton) and previously qualified as an RHCE. Outside his scientific work he is involved in teaching and research into Historical European Martial Arts, having founded a school in 1999 and subsequently written a modern training manual based on Sir William Hope's 1707 fencing text. He has taught and competed at martial arts events in the UK, US, Canada, Australia, Sweden, Austria and Germany.
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Hana Pergl Sustkova is the Operations Officer at the GO FAIR International Support and Coordination Office (GFISCO). Hana supports key activities of the GFISCO including the FAIR Convergence Matrix coalition coordination. Prior to joining the GFISCO, Hana worked as project manager for the ELIXIR research infrastructure, which marked her transition from an international corporation to the academic sphere. Her background is business administration and management. ORCID: 0000-0002-4462-6465



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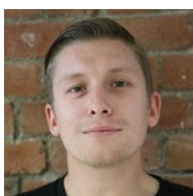
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Mark Hahnel is the CEO and founder of Figshare, which he created whilst completing his PhD in stem cell biology at Imperial College London. Figshare currently provides research data infrastructure for institutions, publishers and funders globally. He is passionate about open science and the potential it has to revolutionize the research community. For the last eight years, Mark has been leading the development of research data infrastructure, with the core aim of reusable and interoperable academic data. Mark sits on the board of DataCite and the advisory board for Directory of Open Access Journals (DOAJ). He was on the judging panel for the National Institutes of Health (NIH), Wellcome Trust Open Science prize and acted as an advisor for the SpringerNature masterclasses.

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Dan Valen joined Figshare as its first US-based employee in early 2014 to help researchers and organizations navigate trends in research data management. In his current role, he focuses on the development of Figshare community through engagement, strategic partnerships and educational outreach. Prior to working in the research data space at Figshare, Dan spent over 6 years at one of the largest scientific, technical, engineering and medical (STEM) publishers holding positions in editorial, trade publishing and electronic content licensing.

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Sarah Jones coordinates work on the DCC's Data Management Planning tool – DMPonline – and undertakes research on data policy and data management planning. Sarah is involved in several European Commission funded projects including, FOSTER+, OpenAIRE and Research Data Alliance Europe 4.0. Her work in a European context focuses primarily on training, data management planning and network building to facilitate open science. She co-chairs the RDA Active DMP Interest Group and the CODATA Working Group on Research Data Science schools. In a personal capacity, she is rapporteur on the European Commission's FAIR Data Expert Group and a member of the Open Science Transport Research Cloud Expert Group. In previous roles, Sarah led the Data Audit Framework project and Incremental. She worked in HATII at the University of Glasgow from 2006–2017, initially for the AHDS Performing Arts data centre and then for the DCC, and is now based in Glasgow University Library.

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Tomasz Miksa has been working as a researcher at SBA Research since October 2012. He received in 2011 his MSc in systems and computer networks from the Wroclaw University of Technology, Poland. In 2016 he received his PhD in computer science from the TU Wien for his work on verification and validation of scientific workflow re-executions. He was involved in preservation of business processes in the EU-funded FP7 project TIMBUS. Furthermore, he took part in the FP7 4C Project which aimed to clarify the costs of curation of digital assets. Currently, he is a chair of the DMP Common Standards working group at the Research Data Alliance (RDA) and a co-founder of RDA Austria. His research focuses on reproducibility of eScience experiments and machine-actionable data management plans. Topics of interests include, but are not limited to: experiment context modelling, verification and validation, data repository architectures and workflows, digital curation and preservation.

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Robert Samors serves as the Coordination Officer for the Belmont Forum e-Infrastructures & Data Management Project. In that role, he coordinates and liaises with e-I & DM project leads, Action Theme co-leads, stakeholders, Advisory Group and Oversight Committee members, and international partners to encourage the adoption of data principles and best practices, promote effective data planning and stewardship, and develop training curricula to enable practitioners to put those principles and practices into action through Belmont Forum agency activities and funded projects. Prior to joining the Belmont Forum, Mr. Samors served as Senior External Relations Manager for the Group on Earth Observations (GEO) designing and implementing GEO's engagement strategy. He has worked closely with experts and global leaders in data and information issues across a range of governments and international scientific and technical organizations. His earlier positions have included serving as Associate Vice President for Innovation and Technology Policy at the Association of Public and Land-grant Universities (APLU), as Associate Vice President for Federal Relations for the University of North Carolina System, and as Assistant Vice President for Research at the University of Michigan. He holds a Masters in Public Policy from the Harvard University Kennedy School of Government, and a B.A. in Economics from Brown University.

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Judit Ungvari is an ecologist by training, with expertise in aspects of avian biology in tropical habitats. She studied birds in the Peruvian Amazon region combining both lab- and field-based research and received her PhD degree in Zoology with a certificate and concentration in Tropical Conservation and Development at the University of Florida in 2016. Judit then worked as a postdoctoral scholar at the Smithsonian Institute in Washington, DC, addressing conservation issues in agroecosystems in Colombia. She has become involved in local capacity building and community outreach both in the USA and Latin America and has mentored dozens of students to complete independent research projects. Her interests include increasing diversity and broadening participation in the sciences, sustainability science, science diplomacy, supporting open and reproducible research efforts, and communicating science to the public, especially in museum settings. As a AAAS Science & Tech Policy fellow at the National Science Foundation, Judit is working on various international activities facilitating transdisciplinary global change research, including the advancement of e-infrastructures and data management planning.

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Rowena Davis was a project coordinator for the Belmont Forum e-Infrastructures and Data Management project, a three-year project (2016–2019) facilitating data sharing among teams performing research for the Belmont Forum, a coalition of major and emerging international funders of global environmental change research. She has been co-chair of the EarthCube Liaison Team (2018–2019) and a co-chair of the RDA Mapping the Data Landscape Interest Group (2017–2019).

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Tina Lee was the Principal Investigator for the Belmont Forum's e-Infrastructures and Data Management Project, a three-year project (2016–2019) whose goal was to make operational the Belmont Forum Open Data Policy & Principles in its collaborative funding program. Funded by the US National Science Foundation and four other international science funding agencies, the e-I&DM project coordinated with numerous international data and research organizations to develop resources for data management planning and training for Belmont Forum's global environmental change community. She is currently the user engagement officer for the CyVerse project, a cyberinfrastructure platform for life sciences computational research based at the The University of Arizona in Tucson.

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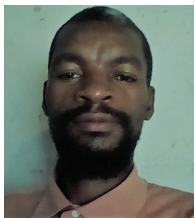
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Albert Mons is one of the founding partners of Phortos Consultants, a consultancy practice to academic institutions and private companies specializing in FAIR data and services solutions. Over the years Albert and his partners have founded and cofounded a number of start-ups in the field of bio-informatics & semantics, data integration and support, network solutions and big data solutions. One of them is Euretos, a platform provider for AI driven hypothesis generation and InSilico Target/Biomarker Discovery and Validation. Recently, Albert has been appointed International Project Manager GO FAIR running the global Business Development and coordinating the partners in the technical Implementation process lead. In addition he was a member of the writing team for the European Open Science Cloud Implementation movement "GOFAIR". Albert also provides FAIR trainings focusing on FAIR Data Stewardship, Ontology and Semantic Modeling and related FAIR services. Recently, in collaboration with the GO FAIR Foundation, Albert initiated (and now chairs) the GO FAIR Service Provider Consortium including, amongst others, Accenture, KPMG, Deloitte, and several SME's providing professional FAIR related consulting and implementations.

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Wouter Franke is a consultant for the Dutch National Health Care Institute with a background in Computer Science and Change Management. He has extensive experience with large implementations of data exchange programs in complex networks of public and private organizations within the Dutch healthcare. Since 2017 he has been working on both research and development of FAIR and the Internet of FAIR Data & Services, and the implementation of FAIR within programs run by the Dutch National Health Care Institute. His goal is to ensure data within healthcare are available to a wide range of stakeholders and can be interpreted by machines. This in turn will greatly increase the value of existing and emerging capabilities in the field of data science, ultimately resulting in better prevention and healthcare systems.

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Arie Baak is one of the co-founders of Euretos, an AI platform used by (pre-)clinical researchers to take a in-silico, systems biology approach to the identification & validation of targets, biomarkers and indications. For the first two decades of his career, Arie has worked in various customer facing strategic innovation roles in the mobile telecoms and Internet infrastructure markets. In this high performance/high volume environment he has been developing analytics solutions that provide actionable insight to end users long before the term "big data analytics" became fashionable. Since 2010 Arie has been applying his expertise to the life sciences where has worked with some of the world's leading pharma, biotech and academic institutions to develop a data & AI driven approach to life sciences research.

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Bert Meerman is the Director of the GO FAIR Foundation (GFF). GFF supports the International GO FAIR Office, mainly in the area of paving the way for implementing a coherent certification program. Bert is a senior business executive with a successful track record in Finance, Network, Information and Data technology. Bert has worked in a variety of management roles in different countries, mostly for American software companies. In addition, Bert has been the Secretary General of the International Factors Group, a consortium of finance companies where he implemented a successful worldwide data-exchange platform, based upon agreed network protocols and EDIFACT standards. Bert is a business economist, with an MBA from the Erasmus University in Rotterdam.

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Renger Jellema, PhD, DSM Biotechnology Center (The Netherlands), has a track record of more than 20 years working in the field of chemometrics and data science. His roots are in analytical chemistry for which he obtained a Bachelor's degree in 1992. Renger studied chemistry at the University of Nijmegen (Radboud University) which he finished in 1995. Subsequently he did his PhD at the University of Amsterdam in a collaboration with the steel company Corus. After a short appointment at the Central Bureau of Statistics (CBS) he obtained a position at TNO Quality of Life, Zeist where he worked in the field of chemometrics as Product Manager of the product group "Analytical Information Sciences" until 2009. In his current employment at DSM, Renger is active in the field of data science where he is involved in several projects to extract more value out of data and implement digital tools within a Biotechnology environment.

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Scott Lusher is Janssen's business technology leader for cheminformatics systems and Discovery Sciences globally, providing strategic technology partnership for 700 scientists, from medicinal chemistry, computational chemistry, data sciences, screening, compound logistics and Drug Metabolism and Pharmacokinetics. In this role he is responsible for developing and executing strategic plans for data-driven and compute-intensive research practices, initiating new projects and management of the overall portfolio of technology projects to enable small molecule discovery. Prior to joining Janssen, he was director of strategy and applied eScience at the Netherlands eScience Center in Amsterdam, enabling scientific IT approaches across Dutch academia. During this time, he participated in the original FAIR workshop and is a coauthor of the resulting publication setting out the FAIR principles. Scott's background is computer-aided drug discovery having spent fifteen years applying computational chemistry approaches in pharma and consumer product organizations.

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Derk Arts has over 12 years of experience in medicine, research and data management, and has been involved in several projects integrating complex and diverse data sources. He received his MD from Vrije University in 2011 and his PhD on decision support and machine learning from the University of Amsterdam in 2016. During his MD training, Dr. Arts identified a major problem in medical research. Due to the unavailability of affordable, user-friendly data capture tools, researchers were deviating to non-compliant alternatives that reduce data quality, security, and reusability, and greatly increase waste. To solve these core issues, he founded Castor, a research platform that enables researchers to easily capture, standardize and reuse medical research data. The platform is currently serving thousands of clinical studies, both commercial and academic, and has been integrated with EPIC and other EMR systems, using HL7 FHIR. Castor is capable of generating machine readable data, which is one of the most promising capabilities for eClinical systems.

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Sebastiaan Knijnenburg is Chief Technology Officer at Castor EDC. With a PhD in Medical Informatics and clinical research, Dr. Knijnenburg is dedicated to providing researchers with advanced software to improve healthcare and research quality. He is passionate about data standardization and FAIR data and implementing FHIR in the context of clinical research.
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Rudi Verbeeck, senior IT manager, holds a degree in civil electrotechnical-mechanical engineering (major: electronics) and in civil biomedical engineering from the university of Leuven (Belgium). He obtained a PhD in applied sciences on medical image processing with applications in stereotactic neurosurgery (University hospital Gasthuisberg, Leuven) in 1996, awarded with the IBM Belgium prize for informatics. He continued in the same hospital as a post-doc in the radiotherapy department to establish a stereotactic radiosurgery capability. He joined Janssen Pharmaceutica in 1998 as a project manager in the IT department responsible for projects in bioinformatics, chemoinformatics and statistics for discovery research. He gained experience in clinical data management when he moved to Tibotec in 2008. Recently, he has been involved in the IMI/EMIF project (European Medical Information Framework) where he developed data harmonization methods based on semantic Web technology. He is currently involved with the IMI FAIRplus project and with FAIR data and ontology management implementations in Janssen.
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Karsten Kryger Hansen is research data management coordinator at Aalborg University, and works with RDM in a broad perspective, covering many aspects of the life cycle of research data. Daily activities ranges from institutional perspectives on data management with the focus of being a change agent, to everyday support for specific research projects.
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