

Sabina Leonelli

Professor in Philosophy and History of Science, Department of Sociology, Philosophy and Anthropology, University of Exeter; **Co-Director** of Exeter Centre for the Study of the Life Sciences (Egenis); **Theme Lead** for Data Governance, Algorithms and Values at Institute for Data Science and Artificial Intelligence; **Turing Fellow**; Member of **Académie Internationale de Philosophie de la Science**; Fellow of **Royal Society of Biology** [FRSB].

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Data Studies Group <https://datastudies.eu> Orcid # <https://orcid.org/0000-0002-7815-6609>
Turing <https://www.turing.ac.uk/people/researchers/sabina-leonelli>
Google citations page: <https://bit.ly/2xFNzPa>

Education

2009–2010 Postgraduate Certificate of Academic Practice, University of Exeter: **Fellow of the Higher Education Academy**.
2002–2007 Department of Philosophy, Vrije Universiteit Amsterdam: **PhD in Philosophy of Science**.
2002–2006 Netherlands Graduate Research School in Science, Technology and Modern Culture (WTMC).
2000–2001 Department of Philosophy, Logic and Scientific Method, London School of Economics and Political Science (LSE): **MSc Philosophy and History of Science**.
1997–2000 Department of Science and Technology Studies, University College London: **BSc History, Philosophy and Social Studies of Science** (Hons).

Previous Appointments

2014-2017 **Associate Professor**. Department of Sociology, Philosophy and Anthropology, Exeter.
2011-2014 **Senior Lecturer**. Department of Sociology, Philosophy and Anthropology, Exeter.
2008-2011 **Research Fellow**. ESRC Centre for Genomics in Society, University of Exeter.
2006–2008 **Research Officer**. Leverhulme/ESRC Project 'How Well Do 'Facts' Travel?', Department of Economic History, London School of Economics and Political Science (LSE).
2002–2006 **Research Assistant**. Project 'Understanding Scientific Understanding', VU Amsterdam.
2000–2002 **Research Assistant**. Centre for the Philosophy of the Natural and Social Sciences, LSE.

Current Professional Service

Vice-President of the European Philosophy of Science Association (2019-2022).
Plan S Ambassador (2019-2021) <https://www.coalition-s.org/> and member of Coalition S steering group overseeing study of collaborative, non-commercial ('diamond') publishing models (2020-2021).
Editor-in-Chief of the journal *History and Philosophy of the Life Sciences* (with Giovanni Boniolo).
Associate Editor of the *Harvard Data Science Review*.
Editorial Board member for *PhilSci Archive*, the book series *BJPS OA Philosophy of Science Monographs* (Calgary UP) and *Science, Values, and the Public* (Pittsburgh UP), and the journals *Science, Technology & Human Values*; *Big Data & Society*; *Social Epistemology*; *Patterns: The Science of Data*; *Data*; and *The Reasoner*.
IUHPST Ambassador (International Union for History & Philosophy of Science and Technology) for International Council of Science project "Digital Representation of Units of Measure" (**DRUM**)
Chair of

- the Nomination Committee of the Philosophy of Science Association (2020-2021)
- the Grene and Callebaut Prize Committee of the International Society for the History, Philosophy and Social Studies of Biology (2019-2021)

Adjunct Professor (2019-2021) within the School of Humanities at the University of Adelaide.

External Faculty of the Konrad Lorenz Institute (Institute for the Advanced Study of Natural Complex Systems), Klosterneuburg, Austria.

Steering Board member of:

- the Society for the Philosophy of Science in Practice (SPSP; 2011-)
- the European Advanced Seminar in the Philosophy of Biology (EASPB; 2011-)
- the UK Network for Integrated History and Philosophy of Science (2010-)
- the Translational Research Exchange Exeter (2017-2020; www.exeter.ac.uk/tree)

Member of:

- **Executive Committee** of the PhilSci Archive, the Open Access archive for the philosophy of science community (2020-2022) <http://philsci-archive.pitt.edu/>
- **Research Data Alliance (RDA) Interest Group on Agricultural Data (IGAD)**, 2016- <https://www.rd-alliance.org/groups/agriculture-data-interest-group-igad.html>
- **Scientific Committee** of the **UNIL-EPFL Center for Digital Humanities** in Lausanne, Switzerland (DhCentre, 2020-) <https://dhcenter-unil-epfl.com/>
- **UK Research and Innovation Future Leaders Fellowship Peer Review College** (UKRI, 2018-2021)
- **European Science Foundation College of Expert Reviewers** (2020-)
- **Collegio docenti [external faculty]** for PhD programme "Philosophy, Science, Cognition and Semiotics", Department of Philosophy, **University of Bologna**
- **Lakatos Award Selection Committee** (2020-).

Scientific Advisor for:

- the Secure Anonymised Information Linkage Databank (2018-; <https://saildatabank.com/>)
- the European Arabidopsis Stock Centre (2014-)
- PomBase, the database for fission yeast biology (2019-2021)
- ERC Starting Grant "Digital DNA" (2021-2026)
- Wellcome Trust Project "From Collection to Cultivation: Historical Perspectives on Crop Diversity and Food Security", University of Cambridge (2020-2025)
- EnergyWay/Ammagamma srl (2019-2020)
- Wellcome Collaborative Grant "The Animal Research Nexus" (2017-22), <https://animalresearchnexus.org>
- Newton Fund Project "Kidnapping and Crime-Apping in Mexico and its Borders" (2019-21)

Contact person for the **World Data System** of the International Council of Science, on behalf of the International Union for History and Philosophy of Science and Technology (IUHPST) (2019-2021).

Research Associate of the Info-Metrics Institute (<http://www.american.edu/cas/economics/info-metrics/>).

Service within the University of Exeter:

- Co-Director of Exeter Centre for the Study of the Life Sciences (2013-)
- Academic Lead and member of Unit Coordination Group for the department (2013-)
- Chair of the University Research Data Management Task Force (2019-)
- Impact Case Study lead (2016-2021)
- Inclusion and Diversity Officer for the department (2017-)
- Member of Equality and Inclusivity college board (2017-2018, 2020-)

Reviewer for *Studies in the History and Philosophy of Science (A & C)*, *International Studies in the Philosophy of Science*, *British Journal for the Philosophy of Science*, *Historical Studies in the Natural Sciences*, *Synthese*, *Philosophy of Science*, *Erkenntnis*, *Social Studies of Science*, *Biology and Philosophy*, *Science, Technology & Human Values*, *Science in Culture*, *BioSocieties*, *Poetics*, *European Journal for Philosophy of Science*, *Bulletin of Science, Technology and Society*, *Perspectives on Science*, *Public Culture*, *Isis*, *HOPOS*, *Journal of the History of Biology*, *Journal of Theoretical Biology*, *Global Policy*, *Bioscience*, *Latu Sensu: Revue de la Societe de Philosophie de la Science*, *Data*, *Data Science*, *History and Technology*, *Big Data & Society*, *Social Epistemology*, MIT Press, Springer, Routledge and Palgrave-MacMillan.

Referee for ERC (European Research Council), BBSRC, ESRC, AHRC, NSF (National Science Foundation), FWO (Flemish-Belgian Fund for Scientific Research), Fonds de la Recherche Scientifique (French-Belgian Fund for Scientific Research), NWO (Netherlands Organisation for Scientific Research), Social Science and Humanities Research Council (Canada), Genome Canada, ANVUR (Italian Research and University Evaluation Agency), ANR (Agence Nationale de la Recherche, France), NIAS (Netherlands Institute for Advanced Studies), Swedish Research Council.

Open Science Expert for the **Mutual Learning Exercise** "Open Science – Altmetrics and Rewards" of **European Commission** (01/2017–03/2018, DG Research & Innovation), involving 13 member states: <https://rio.jrc.ec.europa.eu/en/policy-support-facility/mle-open-science>

Member of:

- the **Open Science Policy Platform** of the European Commission (2016-2019), Working Groups on **FAIR Data, OS Skills and Education, Future of Publishing (chair), OSPP-REC (rapporteur)** and **Indicators**;
- the **Global Young Academy** (2012-2017), leading the **Working Group on Open Science** (2014-2017) <http://www.globalyoungacademy.org/members/s.leonelli>
- **Alliance against Cancer Commission (ACC) of the Italian Ministry of Health**, aimed at elaborating GDPR guidelines for cancer-related data in Italy (2018-2019);
- **Standing Committee for Publisher Search of the Philosophy of Science Association** (PSA, 2019-2020)
- Philosophy of Science Association ad hoc Committee for **Open Access Monograph Publishing** (2018-2020);
- CODATA/Research Data Alliance Task Group "**Summer Schools on Data Science and Cloud Computing in the Developing World**" (2015-2017) <https://rd-alliance.org/groups/rdacodata-summer-schools-data-science-and-cloud-computing-developing-world.html>
- The **Global Outreach committee** of the Joint Caucus for Socially Engaged Philosophers and Historians of Science (2014-2019)

Senior Co-Chair of the Women's Caucus of the European Philosophy of Science Association (2015-2019).

Steering Board member of

- the European Philosophy of Science Association (EPSA; 2013-2017);
- **GARNet**, the Genomic Arabidopsis Resources Network dedicated to coordinating training and events for UK fundamental plant science (2010-2020, <http://www.garnetcommunity.org.uk/advisers/sabina-leonelli>)

Associate Editor for *History and Philosophy of the Life Sciences* (HPLS; 2013-2018).

Honorary Associate Professor at the School of History of the University of Adelaide (2016-2019).

Scientific Advisor for the European Open Science Cloud pilot project (2017-2019)

Chair of the EU Open Science Policy Platform (OSPP) Working Group on **Open Access Scientific Publishing** (2016-2017). **Rapporteur** for the OSPP Working Group on Integrated Advice (2018), which produced the OSPP-REC.

Commissioned Expert for **Swiss Research Council** Report "The Future of Big Data in Healthcare" (2017).

Theme Leader for the Research Environment area of the Global Young Academy (2015-2016).

Core member of the Knowledge/Value research network (2009-2014, www.knowledge-value.org).

Founder of the UK Network for History, Philosophy and Sociology of Plant Science (www.plantsciencestudies.org).

Advisory Board Member to the BBSRC Network for Biological Visualisation (2014-2016; <http://bivi.co/page/resources-biological-visualisation-history-philosophy-and-social-studies-biology>) and the Exeter Initiative for Statistics and its Applications (ExISTA; 2011-2016).

Within Exeter:

- Inclusion and Diversity Officer for the department (2017-)
- Member of the Strategy Group for GCRF (2017-2020)
- Member of Equality and Inclusivity college board (2017-2018)
- Member of Open Research Board (2016-2018)
- PGT Director (2011-2014)

Chair of the Foundation for Interdisciplinary Research Methodology (2005–2008).

Founder and **Editor-in-Chief** of Open Access journal *Graduate Journal of Social Science* (2003–2007).

Grants

PI of ERC Consolidator Grant "A Philosophy of Open Science for Diverse Research Environments" (PHIL_OS), September 2021-August 2026 (1.999.964 euros, grant award 101001145).

PI of Turing Project "From Field Data to Global Indicators: Towards a Framework for Intelligent Plant Data Linkage", May 2019-June 2022 (£405,000) <https://www.turing.ac.uk/research/research-projects/field-data-global-indicators>

Fellowship Award for project "A Philosophy of Global Scientific Practice", **Wissenschaftskolleg zu Berlin**, August 2021-June 2022 (59,434 euros).

Co-I of **UKRI Centre for Doctoral Training in Environmental Intelligence: Data Science & AI for Sustainable Futures**, 2019-2024 (£7,422,441) www.eicdt.ac.uk

Co-I of **Wellcome Trust Institutional Strategic Support Fund** ISSF3 (supporting the Exeter Translational Knowledge Exchange), Nov 2016 – Nov 2021.

Co-I of **ESRC Research Grant** "Understanding the Use of Digital Forensics in Policing in England and Wales: An Ethnographic Analysis of Current Practices and Professional Dynamics", Sept 2018 – August 2021 (£437,912; PI: Dana Wilson-Kovacs) <https://digital-forensics-in-policing.net/>

Co-I of **Australian Research Council Discovery Grant** "Organism and Us: How Living Things Help Us to Understand Our World", Jan 2016 – Dec 2020 (AUS 313,000 with R. Ankeny and M. Dietrich) <https://arts.adelaide.edu.au/organisms-and-us/>

PI of ERC Starting Grant 'The Epistemology of Data-Intensive Science' (DATA_SCIENCE), March 2014 – November 2019 (1.046.000 euros, grant award 335925).

Co-I of **British Academy Knowledge Frontiers** 2017 Award "Co-producing knowledge across disciplines and borders: The case of gene drive mosquitoes in the UK and Mali", Jan 2018 – Jan 2019 (£46,603; PI: Sarah Hartley).

Co-I of **ESRC Research Grant** "Social sensing of health and wellbeing impacts from pollen and air pollution", April 2017-June 2018, ES/P011489/1 (£243,948; PI: Hywel Williams).

VIAF Award by the Global Engagement and Development Fund of the University of Exeter, to support a research collaboration with Professor William Bechtel in May 2017 (£2308).

Open Innovation Application to University of Exeter Impact Fund, to support travel to Annual General Meeting of the Global Young Academy in May 2017 (£1000).

PI of **Medical Research Council MEDMI Pilot Project** "Tracing Data Journeys Across Climate, Environment and Human Health: A Qualitative Study of the Medical & Environmental Data Mash-Up Infrastructure Project," March 2016 – November 2016 (£4820 with N. Tempini).

Co-I of **British Pharmacological Society** Project "The Future of the In Vivo Skills Landscape Within the UK", October 2015 – July 2016 (£90,000 with G. Davies).

Co-I of **Leverhulme Trust Research Grant** 'Beyond the Digital Divide: Sharing Research Data Across Developing and Developed Countries', January 2014 - June 2016 (£123,228 with B. Rappert and A. Kelly, grant award RPG-2013-153).

GARNet Conference Support for "Integrating Large Data into Plant Science", April 2016 (5,000£).

PI of **Global Young Academy Award** "Uses of Open Software in Developing Countries", November 2015 – March 2016 (£5,000).

PI of HASS Strategy Project Development Fund, Project "Knowledge/Value and Dark Data: Absences, Interventions and Digital Worlds", May 2014 – February 2015 (£5,030 with G. Davies, B. Rappert).

Partner in **BBSRC Visualisation Network**, March 2014-February 2015 (PI: Jessie Kennedy).

PI of **Wellcome Trust** Medical Humanities Conference Grant for "Third European Advanced Seminar in Philosophy of Life Sciences" (May - October 2014, £2,825).

Visiting Scholar Award, Project 'Sciences of the Archive', Max Plank Institute for the History of Science, Berlin (January-April 2014, 19.500 euros).

Co-I of **ESRC Cross Investment Linking Grant** 'Trajectories of Emerging Life Science and Open Innovation', April 2013 - March 2014 (£199,000 with D. Castle and J. Dupre, award ES/F028180/1).

Co-I of **EPSRC Grant** 'Evolving Controllers and Controlling Evolution', 2012-2014 (£416,929 with OS Soyer and D Bates).

Co-I of Bridging the Gap Grant (Exeter Research Knowledge Transfer) 'Respecting Complexity: New Methods and Concepts for Robust Synthetic Biology', 2012 (£10,000, with K Haynes and J Dupré).

Company of Biology Conference Support 'Making Data Accessible to All', July 2012 (£1000, with R Bastow).

GARNet Conference Support for 'Making Data Accessible to All', July 2012 (£2500, with R. Bastow).

Konrad Lorenz Institute Conference Grant for 'Making Sense of Data', June 2011 (£6000).

EGN Forum Conference Grant for the organisation of 'Making It Big' conference, March 2011 (£5000, with E. Frow and G. Davies).

Conference grants from the British Society for the Philosophy of Science, the British Society for the History of Science and the Mind Association to fund conference 'What is HPS for?', June 2010 (total £1550).
British Academy Small Grant for project 'Data-Driven Research in the Biological and Biomedical Sciences', September 2009–June 2010 (£4700).

Awards and Scholarships

Selected as one of **100 Brilliant Women in AI Ethics (WAIE) list 2020** <http://lighthouse3.com/wp-content/uploads/2019/12/Diversity-and-Ethics-in-AI-2020.pdf>

Elected Fellow of the **Royal Society of Biology**, 2019.

Elected Member of the **Académie Internationale de Philosophie de la Science** (AIPS, the international academy for the philosophy of science, with 70 members worldwide elected on the basis of research excellence), 2019.

Lakatos Award 2018 for outstanding contribution to the philosophy of science (for the book *Data-Centric Biology: A Philosophical Study*).

The book "La Ricerca Scientifica Nell'Era dei Big Data" was nominated for Premio Galileo 2019 (top prize for scientific communication literature in Italy).

"Talented Young Italians" Award for Research and Innovation 2017 (awarded by the Italian Chamber of Commerce in the UK to an Italian researcher under 40 working in the UK).

Gold Award for Research Impact, University of Exeter, August 2015.

Nominated for University of Exeter Teaching Awards 2013 in the category of 'Innovative Teaching' (one of five nominees university-wide).

Marjorie Grene Prize 2007 (awarded by the International Society for the History, Philosophy and Social Studies of Biology to the best paper in the field written and presented as a PhD student).

VISU Wiener Kreis Scholarship to attend the International Summer School, July 2004.

Konrad Lorentz Institute Visiting Scholarship, Vienna, July 2004.

LSE Award supporting my research studies in London for 2001–2002.

AHRC Competition A grant funding my Masters degree for 2000–2001.

Dean's list (UCL graduation class 2000).

Jackson Lewis Scholarship for best results of Mathematical and Physical Sciences Faculty, UCL 1999.

UCL Departmental Award as best STS student for academic year 1998–1999.

Career Breaks for Maternity Leave

[1] September – December 2010; [2] June – October 2014

Publications

Monographs and Edited Books

Leonelli, S. and Tempini, N. (eds) (2020) *Data Journeys in the Sciences*. Springer. Open Access. <https://www.springer.com/gp/book/9783030371760>

Ankeny, R.A. and Leonelli, S. (2020) *Model Organisms*. Elements Series, Cambridge University Press. Open Access. <https://www.cambridge.org/core/elements/model-organisms/F895B26EAC0373BCA5A138835AC73AEA>

Leonelli, S. (2018) *La Ricerca Scientifica Nell'Era Dei Big Data*. Meltemi Editore. ("Scientific Research in the Age of Big Data"). ISBN 9788883539015.

- French translation: Leonelli, S. (2019) *La Recherche Scientifique à l'Ère des Big Data: Cinq Façons Donc les Données Massive Nuisent à la Science, et Comment la Sauver*. Éditions Mimésis.
- Reviewed by:
 - Maël Lemoine, *M-Soigner.com* (2019): "La slow science pour calmer le monde des Big Data" <https://www.m-soigner.com/grand-angle/soci%C3%A9t%C3%A9-et-id%C3%A9s/664-la-slow-science-pour-calmer-la-fr%C3%A9n%C3%A9sie-des-big-data.html>
 - Bianchini, E & Maturi, M. *Il Fatto Quotidiano* (2018): "Big Data, le trappole per la ricerca: dalla fretta del profitto al potere di Google" <https://www.ilfattoquotidiano.it/2018/10/18/big-data-le-trappole-per-la-ricerca-dalla-fretta-del-profitto-al-potere-di-google/4692481/>
 - "Il Libro", *Repubblica*, 24 Novembre 2018

- Luigi Ripamonti, *Corriere della Sera* (2018): "Cosa Dicono Davvero I Big Data" <https://www.pressreader.com/italy/corriere-della-sera/20181125/282686163276834>
- Mauro Capocci, *Le Scienze* (2018): "Analisi Critica del Datocentrismo" <http://www.meltemieditore.it/wp-content/uploads/capocci-le-scienze-big-data-leonelli.pdf>
- Alberto Trobia, YouTube series "Panopticon" (2019): <https://www.youtube.com/watch?v=IEJDNhaCFEw>
- Davide Lovesini, *L'Indice dei Libri del Mese* (2019) "Approcci Sistemici alla Gestione dell'Informazione" <https://www.lindiceonline.com/l-indice/sommario/giugno-2019/>

Leonelli, S. (2016) *Data-Centric Biology: A Philosophical Study*. Chicago, IL: Chicago University Press.

- Reviewed by
 - Philip Mirowski, *Metascience* (2017): "Databall" <https://doi.org/10.1007/s11016-017-0246-2>
 - Adrian Currie, *British Journal for the Philosophy of Science* (2017): <https://bjpsbooks.wordpress.com/2017/02/14/sabina-leonelli-data-centric-biology-a-philosophical-study/>
 - Jane Calvert, *New Genetics and Society* (2017): <http://dx.doi.org/10.1080/14636778.2017.1389263>
 - Joeri Witteveen, *The Quarterly Review of Biology*, 92(3): 292-295 (2017): "Making Sense of Biology in the Digital Age" <http://www.journals.uchicago.edu/doi/full/10.1086/693566>
 - Beckett Sterner, *Philosophy of Science*, 85(3), (2018): <http://www.journals.uchicago.edu/toc/phos/0/ja>
 - Pierre-Luc Germain, *History and Philosophy of the Life Sciences* (2018): <https://link.springer.com/content/pdf/10.1007%2Fs40656-018-0224-z.pdf>
 - Youjung Shin, *Journal of the History of Biology* (2018): <https://link.springer.com/article/10.1007/s10739-018-9544-9>
 - Stephen Hilgartner, *Isis* 109(4): 884-885 (2018): <https://www.journals.uchicago.edu/doi/pdfplus/10.1086/701350>

de Regt, H., Leonelli, S. and Eigner, K. (eds.) (2009) *Scientific Understanding: Philosophical Perspectives*. Pittsburgh University Press.

- Reviewed by
 - Catherine Z. Elgin (2010) *Notre Dame Philosophical Reviews*.
 - Jacob Stegenga (2011) *British Journal for the History of Science*.

Special Issues and Collections

'Biomedical knowledge in a time of crisis: Historical and philosophical perspectives on COVID-19' (with D. Teira, in progress) *History and Philosophy of the Life Sciences*.

'Data Quality and Data Access for Research' (with M. Crosas and R. Mounce, in progress) *Data*. https://www.mdpi.com/journal/data/special_issues/Data_access

'Circulating Bodies: Human-Animal Movements in Science and Medicine' (with R. Kirk and D. Myelnikov, in progress) *History and Philosophy of the Life Sciences*.

'Genomics/DNA-Based Technologies in the Clinic and Beyond' (2018). Section One of Gibbon, S, Prinsack B, Hilgartner S, Lamoreaux J (eds) *Routledge Handbook for Genomics, Health and Society*. London: Routledge.

'Open Data and Africa' (with L. Bezuidenhout and B. Rappert, 2018) *Data Science Journal*. <https://datascience.codata.org/collections/special/open-data-and-africa/>

'Data Shadows: Knowledge, Absence and Openness' (with B. Rappert and G. Davies, 2017) *Science, Technology and Human Values* 42, 2.

'Bigger, Faster, Better? Rhetorics and Practices of Large-Scale Research in Contemporary Bioscience' (with G. Davies and E. Frow, 2013) *BioSocieties* 8, 4.

'Translational Research in the Life Sciences' (with K. Sunder Rajan, 2013) *Public Culture* 25, 3.

'Data-driven research in the biological and biomedical sciences' (2012) *Studies in the History and the Philosophy of the Biological and Biomedical Sciences: Part C* 43, 1.

'How Well Do Facts Travel?' (2009) *Graduate Journal of Social Science*.

'The Philosophy of Biology in the Netherlands and Flanders' (with T.A.C. Reydon, 2005) *Acta Biotheoretica*.

'Unity in Social Science' (with S. Ortmann, 2005) *Graduate Journal of Social Science*.

Journal articles

- [71] Krige, J and Leonelli, S (2021) Mobilizing the Translational History of Knowledge Flows: COVID-19 and the Politics of Knowledge at the Borders. *History and Technology*. <https://doi.org/10.1080/07341512.2021.1890524>
- [70] Tempini, N and Leonelli, S (2021) Actionable Data for Precision Oncology: Framing Trustworthy Evidence for Exploratory Research and Clinical Diagnostics. *Social Science and Medicine* doi: 10.1016/j.socscimed.2021.113760
- [69] Leonelli, S. (2021) Data Science in Times of Pan(dem)ic. *Harvard Data Science Review* 3(1) <https://doi.org/10.1162/99608f92.fbb1bdd6> [featured article with seven discussion pieces]
- [68] Leonelli, S. (2021) Rejoinder: The Present and Future of Data Science in Society. *Harvard Data Science Review* 3(1) <https://doi.org/10.1162/99608f92.fc216595>
- [67] Arnaud E, Laporte MA, Kim S, Aubert C, Leonelli S, Cooper L, Jaiswal P, Kruseman G, Shrestha R, Buttigieg PL, Mungall C, Pietragalla J, Agbona A, Muliro J, Detras J, Hualla V, Rathore A, Das R, Dieng I, King B (2020) The Ontologies Community of Practice: An Initiative by the CGIAR Platform for Big Data in Agriculture. *Patterns* 1: 100105 [https://www.cell.com/patterns/pdf/S2666-3899\(20\)30139-2.pdf](https://www.cell.com/patterns/pdf/S2666-3899(20)30139-2.pdf)
- [66] Geraint P, Yoselin BA, Gibbs D, Grant M, Harper A, Harrison J, Kaiserli E, Leonelli S, May S, McKim S, Spoel S, Turnbull C, van der Hoorn R, Murray J (2020) How to Build an Effective Research Network: Lessons from Twenty Years of the GARNet Plant Science Community. *Journal of Experimental Botany*, eraa307, <https://doi.org/10.1093/jxb/eraa397>
- [65] Leonelli, S. (2019) Data – From Objects to Assets. *Nature* 574, 317-321. DOI: 10.1038/d41586-019-03062-w
- [64] Dietrich M, Ankeny R, Crowe N, Green S, Leonelli S (2019) How to Choose your Research Organism. *Studies in the History and Philosophy of the Biological and Biomedical Sciences: Part C*. <https://doi.org/10.1016/j.shpsc.2019.101227>
- [63] Lowe, J, Leonelli, S and Davies, G (2019) Training to translate: Understanding and Informing Translational Animal Research in Preclinical Pharmacology. *Technoscienza* 10(2): 5-30.
- [62] Leonelli, S. (2019) Data Governance is Key to Interpretation: Reconceptualising Data in Data Science. *Harvard Data Science Review*, inaugural issue. <https://doi.org/10.1162/99608f92.17405bb6>
- [61] Leonelli, S. (2019) Philosophy of Biology: The Challenges of Big Data. *eLife* 2019;8:e47381 doi: [10.7554/eLife.47381](https://doi.org/10.7554/eLife.47381)
- [60] Leonelli, S. (2019) What Distinguishes Data from Models? *European Journal for the Philosophy of Science* 9:22 (27 pages) <https://doi.org/10.1007/s13194-018-0246-0>
- [59] Leonelli, S. (2018) The Time of Data: Time-Scales of Data Use in the Life Sciences. *Philosophy of Science* 85 (5):741-754. DOI: [10.1086/699699](https://doi.org/10.1086/699699)
- [58] Green, S., Dietrich, M. R., Leonelli, S. and Ankeny, R.A. (2018) "Extreme Organisms" and the Problem of Generalization: Interpreting the August Krogh Principle. *History and Philosophy of the Life Sciences* 40:65 <https://rdcu.be/bav5U>
- [57] Leonelli, S. (2018) Re-Thinking Reproducibility as a Criterion for Research Quality. *Research in the History of Economic Thought and Methodology. Including a Symposium on the Work of Mary Morgan: Curiosity, Imagination, and Surprise*. Volume 36B, 129-146. DOI: [10.1108/S0743-41542018000036B009](https://doi.org/10.1108/S0743-41542018000036B009)
- [56] Tempini, N. and Leonelli, S. (2018) Concealment and Discovery: The Role of Information Security in Biomedical Data Re-Use. *Social Studies of Science* 48(5): 663-690. DOI: 10.1177/0306312718804875
- [55] Leonelli, S. and Tempini, N. (2018) Where Health and Environment Meet: The Use of Invariant Parameters in Big Data Analysis. *Synthese*. Special issue "Philosophy of Epidemiology" edited by Sean Valles and Jonathan Kaplan. DOI: 10.1007/s11229-018-1844-2
- [54] Leonelli, S., Rappert, B and Bezuidenhout, L. (2018) Introduction: Open Data and Africa. *Data Science Journal* 17, p.5-7. DOI: [10.5334/dsj-2018-005](https://doi.org/10.5334/dsj-2018-005)
- [53] Leonelli, S. (2017) Global Data Quality Assessment and the Situated Nature of "Best" Research Practices in Biology. *Data Science Journal* 16(32): 1-11. DOI: [10.5334/dsj-2017-032](https://doi.org/10.5334/dsj-2017-032)
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- Fleming LE, Tempini N, Gordon-Brown H, Nichols G, Sarran C, Vineis P, Leonardi G, Golding B, Haines A, Kessel A, Murray V, Depledge M, Leonelli S. (2017) Big Data in Environment and Human Health: Challenges and Opportunities. *Oxford Encyclopaedia for Environment and Human Health*. Oxford University Press. DOI: 10.1093/acrefore/9780199389414.013.541
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- Leonelli, S. (2013) Short entries for 'curation', 'stock centres', 'community databases' and 'metadata' in Dubitzky, W et al (Eds.) *Encyclopedia of Systems Biology*. Springer.

Data Resources

Plant DB Map [data visualisation tool tracking the history and current geography of plant data linkage initiatives globally] launched December 2019: <https://datastudies.eu/plant-db-map/>

Consultations and Reports

Co-author of Alan Turing Institute Report "AI and Data Science in the Age of COVID-19" (group lead of the "Data readiness, collection and monitoring" working group). (2021, in preparation)

Co-author of Alan Turing Institute Response to the UK National Data Strategy (2021, in preparation).

DATA TOGETHER (2020) Open Science for a Global Transformation. Data Together Response to UNESCO Consultation on Open Science. 29 pages. [I co-authored the response]

DOI: <https://doi.org/10.5281/zenodo.3935461>

Participant in evidence gathering on Royal Society Report "Digital Technology and the Planet", July 2020.

Consulting role on the "The Future of Citizen Data Systems" Report of the UK Government Office for Science, July 2020 (report released September 2020:

<https://www.gov.uk/government/publications/the-future-of-citizen-data-systems>).

Open Science Policy Platform (2020) *Progress on Open Science: Towards a Shared Research Knowledge System. Final Report of the Open Science Policy Platform*. European Commission, Directorate-General for Research and Innovation. URL:

https://ec.europa.eu/research/openscience/pdf/ec_rtd_ospp-final-report.pdf#view=fit&pagemode=none

DOI: 10.2777/00139 I co-authored the report as an OSPP member representing the Global Young Academy from 2016 to 2019.

Ankeny, R and Leonelli, S (2019) Response to invitation to contribute to US National Academies of Sciences inquiry on the nature of collections in the life sciences: "A Philosophical Perspective on Biological Collections"

Vermeir, K, Riede, M, Leonelli, S (2018) Opportunities and Challenges for Implementing Plan S: The View of the Young Academies. URL: <https://globalyoungacademy.net/wp-content/uploads/2018/10/YA-Statement-on-Plan-S-FINAL.pdf>

Open Science Policy Platform (2018) *OSPP-REC: Recommendations of the Open Science Policy Platform*. Presented to Competitiveness Council of the European Commission in May 2018. URL:

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Together with Rebecca Lawrence and Catriona MacCallum, I was responsible for drafting and finalising the document in consultation with the OSPP as a whole.

European Commission (2018) *Open Science: Altmetrics and Rewards*. Final Report for the Mutual Learning Exercise Open Science: Altmetrics and Rewards of the European Commission (Sabina Leonelli is one of four co-authors). URL: <https://rio.jrc.ec.europa.eu/en/policy-support-facility/mle-open-science-altmetrics-and-rewards>

Vermeir, K, Leonelli, S et al. (2018) *Global Access to Research Software: The Forgotten Pillar of Open Science Implementation. A Global Young Academy Report*. Halle: Global Young Academy. ISBN: 978-3-8047-3851-5. URL: <https://globalyoungacademy.net/activities/global-access-to-research-software/>

European Commission (2018) *Implementing Open Science: Strategies, Experiences and Models*. Thematic Report No 4 for the Mutual Learning Exercise on Open Science: Altmetrics and Rewards of the European Commission. <https://rio.jrc.ec.europa.eu/en/library/mutual-learning-exercise-open-science-%E2%80%93-altmetrics-and-rewards-incentives-and-rewards-engage> Sabina Leonelli is the reports' sole author.

European Commission (2017) *Incentives and Rewards to Engage in Open Science Activities*. Thematic Report No 3 for the Mutual Learning Exercise Open Science: Altmetrics and Rewards of the European Commission. <https://rio.jrc.ec.europa.eu/en/library/mutual-learning-exercise-open-science-%E2%80%93-altmetrics-and-rewards-incentives-and-rewards-engage> Sabina Leonelli is the reports' sole author.

Leonelli, S. (2017) *Biomedical Knowledge Production in the Age of Big Data*. Report for the Swiss Science and Innovation Council, published online November 2017:

http://www.swir.ch/images/stories/pdf/en/Exploratory_study_2_2017_Big_Data_SSIIC_EN.pdf

(reported in *Research Professional*, December 2017 and *Research Europe*, February 2018 – key document informing Swiss policy on big and open data in biomedicine) ISBN 978-3-906113-52-4

DATA_SCIENCE project featured as a case study for best practice in Open Science for a study on Open Access to publications and research data management and sharing within projects funded by the European Research Council (ERC), which was commissioned by the ERC Executive Agency (ERCEA). Published online 2018. URL: TBA.

Chair and co-author of the *Position Statement on Open Science Publishing* by the Open Science Policy Platform of the European Commission, published online May 2017:
https://ec.europa.eu/research/openscience/pdf/ospp_open_access_publishing_report.pdf *On the basis of this document, the European Competitiveness Council decided in 2017 to institute a new European Publishing Platform (as reported by Nature and Science magazines).*

Leonelli, S (2017) "Perspective: Data Use, Equality and Society." In: *Data Management and Use: Governance in the 21st Century*. A Joint Report of the Royal Society and the British Academy.
<https://royalsociety.org/~media/policy/projects/data-governance/data-management-governance.pdf>

Lowe JWE, Collis M, Davies G, Leonelli S, Lewis DI and Zecharia AY (2016) An Evaluation of the Integrative Pharmacology Fund: Lessons for the future of in vivo education & training. London: British Pharmacological Society. www.bps.ac.uk/futureinvivo

Digital Science Report (2016) The State of Open Data. London, Holtzbrinck Publishing Group. Featuring leading thought piece by Sabina Leonelli: "Why Open Data Now?", pp.7-11.
<https://dx.doi.org/10.6084/m9.figshare.4036398>

Invited expert witness for Royal Society and British Academy joint consultation on Data Governance, London, 20 October 2016.

Chair and lead author of the Open Data Position Statement of the Global Young Academy and the European Young Science Academies. April 2016. <http://globalyoungacademy.net/wp-content/uploads/2016/04/Position-Statement-on-Open-Data-by-the-Young-Academies-of-Europe-and-the-Global-Young-Academy.pdf>

Co-author of GYA Response to the Call for Evidence by the Open Science Policy Platform of the European Commission "Next-generation Altmetrics: Responsible Metrics and Evaluation for Open Science"

Invited Participation as a 'Reader' for the Science International Expert Working Group on Big Data/Open Data, October 2015.

Data Studies Response to Draft Concordat on Open Research Data. September 2015.
www.datastudies.eu/resources

Invited participant in Discussion Group on Data Science and Ethics, Cabinet Office, UK Government Innovation Group (November 2014, March 2015).

Coordinator and lead author: Global Young Academy Response to 'Science 2.0: Science in Transition' consultation of The European Commission's Directorates-General for Research and Innovation (RTD), May 2014. http://globalyoungacademy.net/wp-content/uploads/2015/06/Science2.0_EU-Consultation_GYA-Input.pdf

Levin, N. and Leonelli, S. (2014) Egenis response to Nuffield Council of Bioethics Consultation 'The linking and use of biological and health data in biology and biomedicine', January 2014.

Coordinator & co-author: Global Young Academy Position Statement on Global Research. November 2013.
http://www.globalyoungacademy.net/gya-publications/GlobalResearchGYASTATEMENT_4Nov2013.pdf

Coordinator & co-author: Global Young Academy Position Statement on Open Science. November 2012.
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Leonelli, S. and Bastow, R. (2012) Report for GARNet/BBSRC: Making Data Accessible to All. Available at <http://www.garnetcommunity.org.uk/reports>; reported in EASST Reviews: http://easst.net/?page_id=1202

Contribution to International Council for Science (ICSU) Advisory Note: Revaluing Science in the digital age. October 2012.

Contribution to GARNet Response to BBSRC Consultation on Digital Organisms, September 2012.

Response to Nuffield Foundation Consultation on 'New Approaches to Biofuels'. March 2010.

<http://www.genomicsnetwork.ac.uk/media/Nuffield%20Biofuels%20Response.pdf>

Report for GARNet/BBSRC: 'Business Models for Database Funding'. April 2010.

Response to OECD Consultation on 'Data Sharing in Genomics'. June 2008.

Datasets

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Leonelli, S. (forthcoming) [DATA_SCIENCE] Interviews IITA, 2017. Zenodo.

Tempini, N. and Leonelli, S. (2019) [DATA_SCIENCE] Interviews MEDMI, 2015-2016. Zenodo.

Leonelli, S. (2018). [DATA_SCIENCE] Interviews Plant Phenomics, 2015 [Data set]. Zenodo.

<http://doi.org/10.5281/zenodo.2485137>

Leonelli, S. (2017) [DATA_SCIENCE] Interviews PomBase Users, January-February 2016. *figshare*.

<https://doi.org/10.6084/m9.figshare.5484010.v1>

Bezuidenhout, Louise; Rappert, Brian; Leonelli, Sabina; H. Kelly, Ann (2016) Datasets for Beyond the Digital Divide: Sharing Research Data across Developing and Developed Countries. *figshare*.

<https://dx.doi.org/10.6084/m9.figshare.3203809.v1>

Non-Refereed Contributions

Leonelli, Sabina (2020) big data; plurality; neutrality; AI; Coronavirus; pandemic; relativism; open science.

In: *The Index of Evidence*, 61 <https://www.indexofevidence.org/data>

Leonelli, Sabina. (2020). Opening the Research Process: From Publications to Data, and Back Again.

Zenodo. <http://doi.org/10.5281/zenodo.4045738>

Cousins T, Leonelli S, Pentacost M, Rajan KS. (2020) Situating the Biology of COVID-19: A Conversation on Disease and Democracy. *The India Forum* <https://www.theindiaforum.in/article/situating-biology-covid-19>

Leonelli S and Williamson H. (2020) Intelligent plant data linkage: A view from history, philosophy and social studies of science [version 1; not peer reviewed]. *F1000Research* 2020, 9:260 (slides)

(doi: [10.7490/f1000research.1117842.1](https://doi.org/10.7490/f1000research.1117842.1)).

Boniolo, G. and Leonelli, S. (2019) Intellectual Directions for History and Philosophy of the Life Sciences,

2019-2023. *History and Philosophy of the Life Sciences* 41:28 <https://doi.org/10.1007/s40656-019-0254-1>

Leonelli S. Intelligent plant data linkage: a view from history, philosophy and social studies of science [version 1; not peer reviewed]. *F1000Research* 2019, **8**:1815 (slides)

(doi: [10.7490/f1000research.1117580.1](https://doi.org/10.7490/f1000research.1117580.1))

Leonelli, S. (2018) Without Urgent Action Big and Open Data may widen existing inequalities and social divides. *LSE Impact Blog*, 14 February 2018.

<http://blogs.lse.ac.uk/impactofsocialsciences/2018/02/14/without-urgent-action-big-and-open-data-may-widen-existing-inequalities-and-social-divides/>

Rappert, B, Leonelli, S. and Bezuidenhout, L (2018) New Deal on Data Needed If Open Science Is To Go Global. View from the Top, *Research Fortnight*, 17 January 2018.

Leonelli, S. (2017) Interview for Cartaditalia issue 3, November 2017, as part of a series featuring leading Italian researchers under 40:

http://iicbruxelles.esteri.it/iic_bruxelles/resource/doc/2017/11/cartaditalia_n3-rid.pdf

Leonelli, S. (2017) More than Data Collectors: Valuing Data Expertise Beyond Professional Science. *Harvard Bill of Health Blog*. 4 May 2017. <http://blogs.harvard.edu/billofhealth/category/critical-studies-of-citizen-science-in-biomedical-research-symposium/>

Leonelli, S. (2017) Data-Centric Science Will Change How We Measure the Value of Research. *Research Europe*, 23 February 2017.

Leonelli, S. (2017) Big and Open Data Are Prompting A Reform of Scientific Governance. The Times Higher Education Blog, 21 February 2017. <http://www.timeshighereducation.com/blog/big-and-open-data-are-prompting-reform-scientific-governance>; republished in Times Higher Education Magazine,

February 2017.

Leonelli, S. (2016) Open Data: Curation Is Under-Resourced. *Nature* 538 (7623): 41. doi:10.1038/538041d

Leonelli, S. (2016) Why Open Data Now? In: Report "State of Data", Digital Science London.

Leonelli, S. (2016) What Are Data? In *Atlas of Science*. <http://atlasofscience.org/what-are-data/> April 2016.

Leonelli, S. (2016). Towards a Truly Global Open Science. *GYA Connections* 4, May 2016.

Leonelli, S. (2016). Research Environment. *GYA Connections* 4, May 2016.

Leonelli, S. and Prainsack, B. (2015). Learned Societies Should Lead the Way to Open Science. View from the Top Section, *Research Europe* 2 July 2015, buff.ly/1GQil5q.

- Leonelli, S. and Bezuidenhout, L. (2015) The Politics of Data: The Rising Prominence of a Data-Centric Approach to Scientific Research. *LSE Impact Blog*. Published online December 2015. <http://blogs.lse.ac.uk/impactofsocialsciences/2015/10/05/politics-of-data-scientific-data-centrism/>
- Prainsack, B. and Leonelli, S. (2015) To What Are We Opening Science? *LSE Impact Blog*. Published online May 2015. <http://blogs.lse.ac.uk/impactofsocialsciences/2015/04/21/to-what-are-we-opening-science/>
- Leonelli, S. (2015) Editorial: The Philosophical Import of the Philosophy of Special Sciences. *The Reasoner*, Vol 9, number 3. <http://blogs.kent.ac.uk/thereasoner/files/2015/02/TheReasoner-93.pdf>
- Leonelli, S. (2015) Interview with Rachel Ankeny, John Dupre and James Griesemer: On the Philosophy of Biology. *The Reasoner*, vol. 9, number 3. <http://blogs.kent.ac.uk/thereasoner/files/2015/02/TheReasoner-93.pdf>
- Leonelli, S. (2015) Interview for *LSE Impact Blog*, Philosophy of Data Science series. Published online 19 January 2015: <http://blogs.lse.ac.uk/impactofsocialsciences/2015/01/19/philosophy-of-data-science-series-sabina-leonelli/#author>
- Leonelli, S. (2014) Curation of webpage on visualisations in the history and philosophy of biology: <http://bivi.co/page/resources-biological-visualisation-history-philosophy-and-social-studies-biology>
- Levin, N. and Leonelli, S. (2014) Workshop Report "The Value of Open Science". *EASST Review*, March 2014.
- Leonelli, S. (November 2012) Open Data and Privacy Concerns in Biomedical Research. *Open Knowledge Foundation blog* <http://blog.okfn.org/2012/11/26/open-data-and-privacy-concerns-in-biomedical-research/> and *Open Science blog* <http://science.okfn.org/2012/11/19/open-data-and-privacy-concerns-in-biomedical-research-guest-post/> .
- Leonelli, S. (2012) The Brain Drain. *Britain in 2013*, p.88.
- Leonelli, S and Barwich, A (2012) Editorial: Philosophy and Experiments. *The Reasoner*.
- Donaghy, J and Leonelli, S (2012) Interview with Giovanna Colombetti. *The Reasoner*.
- Leonelli, S. (2011) The Human Face of Data-Intensive Biology. *The Newsletter of the ESRC Genomics Network*, issue 13, pp. 10-12.
- Leonelli, S. (2010) Key concerns that should travel between e-social and e-natural science. *E-Research Ethics Website*. <http://ereseach-ethics.org/>
- Leonelli, S. (2008) Circulating Evidence Across Research Contexts: The Locality of Data and Claims in Model Organism Biology. *LSE Working Papers on the Nature of Evidence: How Well Do 'Facts' Travel?*, No. 25/08.
- Leonelli, S. (2008) Regulating Data Travel in the Life Sciences: The Impact of Commodification. *LSE Working Papers on the Nature of Evidence: How Well Do 'Facts' Travel?*, No. 27/08.
- Leonelli, S. (2002) Understanding Infrared Metaphysics: Melloni's Quest for Identity, *Measurement in Physics and Economics Discussion Paper Series*, DP MEAS 22/02, ISSN1465-637X.

Conference Proceedings

- Leonelli, S (2009) A HPSSB (History, Philosophy and Social Studies of Biology) Perspective on Biomedical Ontologies. *eScience-2009: Workshop Proceedings*.
- Leonelli, S (2009) The Role of Bio-Ontologies In Data-Driven Research: A Philosophical Perspective. *Nature Proceedings Collection*. <http://precedings.nature.com/documents/3646/version/1>

PhD Dissertation [published Open Access by VU Amsterdam]

- Leonelli, S. (2007) *Weed for Thought. Using Arabidopsis thaliana to Understand Plant Biology*. Vrije Universiteit Amsterdam Open Access: <http://dare.uvu.vu.nl/bitstream/handle/1871/10703/7623.pdf;jsessionid=6AD4C79DF93F2C96D9D0110615F78B78?sequence=1>

Under Review

- Leonelli, S. How Data Cross Borders: Globalising Plant Knowledge through Transnational Data Management and Its Epistemic Economy. In: Krige, J (ed) *Transnational Transactions: Negotiating the Movement of Knowledge Across Borders*. Chicago, IL: University of Chicago Press.
- Leonelli S, Lovell B, Fleming L, Wheeler B and Williams H. From FAIR data to fair data use: Methodological data fairness in health-related social media research.
- Hartley S, Ledingham K, Owen R, Leonelli S, Diarra S, Diop SI. Experimenting with co-development: A qualitative study of gene drive research for malaria control in Mali.

- Williamson, W, [various] and Leonelli, S Data Challenges for Plant-Focused Artificial Intelligence.
- Rappert, B, Leonelli, S, Wheatley H, Wilson-Kovacs, D Evincing Shadows: How Digital Forensics Turns Big Data Into Evidence of Indecency.
- Cousins, Pentecost et al. Changing Climates of Global Health.

In Preparation

Articles and Chapters

- Williamson, H. and Leonelli, S. Focusing Plant Breeding on Accelerating Genetic Gains
- Canali, S and Leonelli, S Reframing the Environment in Data-Intensive Health Sciences.
- Curry, H and Leonelli, S Describing Crops in the CGIAR Era. For edited volume on the history of the CGIAR.
- Dupré, J and Leonelli, S Towards a Processual Empiricism.
- Leonelli, S. What's in a Name? Plant Data Semantics for Interoperable Data Systems.
- Kirk R, Myelnikov D and Leonelli S (eds) Editorial. Circulating bodies: Human-animal movements in science and medicine.
- Leonelli, S. Open Science and Epistemic Pluralism: Friends or Foes?

Special Issues and Edited Volumes

- Kirk R, Myelnikov D and Leonelli S (eds) "Circulating bodies: Human-animal movements in science and medicine." Topical collection for *History and Philosophy of the Life Sciences*. Under review.
- Williamson H and Leonelli s (eds) *Towards Responsible Plant Data Linkage*. Collection in preparation.

Books

- Beaulieu, A. and Leonelli, S. *Data and Society: A Critical Introduction*. SAGE.
- Leonelli, S. and Williamson, H. (eds.) *Towards Responsible Plant Data Linkage*. Springer.
- Leonelli, S. *The Philosophy of Open Science*. Cambridge University Press.
- Ankeny, R.A. and Leonelli, S. *Thinking with Organisms*.

Teaching Experience

2019-2020	Convenor and lecturer for MSc module "Data Governance and Ethics" and MA module "Cultures of the Life Sciences".
2018-2019	Co-teacher for MA modules "Cultures of the Life Sciences" and "Philosophical Methods". Programme director for MA degree "Philosophy and Sociology of Science".
2017-2018	Convenor and lecturer for core module "Data in Business and Society" for MSc Data Science. Co-teacher for MA modules "Cultures of the Life Sciences" and "Philosophical Methods". Programme director for MA degree "Philosophy and Sociology of Science".
2015-2017	MA module "Cultures of the Life Sciences." Programme director for MA/MSc degrees 'Philosophy and Sociology of Science' and "Science and Technology Studies".
2014-2015	Co-lecturer of MSc module "Philosophy of Science".
2012, 2013	Director of Postgraduate Teaching. Convenor of MA degrees 'History and Philosophy of Biology' and "Science and Technology Studies". Lecturer for UG course 'Pragmatism and Its Enemies'. Co-lecturer of MA module "Cultures of the Life Sciences", MSc module 'Research Skills in Sociology', and BSc second-year module 'Research Skills and Bioethics'. Personal tutor to 15 philosophy undergraduates.
2010, 2011	Convenor of MA degree 'History and Philosophy of Biology'. Co-teacher of MSc module 'Research Skills in Sociology', and BSc second-year module 'Research Skills and Bioethics'.
2009-2010	Co-convenor of MA degree 'History and Philosophy of Biology'. Co-teacher of MSc modules 'Genomics in Society' (module on governance) and 'Research Skills in Sociology'.
2008–2009	Co-teacher of MA modules 'History and Philosophy of Biology' and 'Research Skills in Sociology'. Organiser of the fortnightly Philosophy of Biology Journal Club.
2003–2005	Co-teacher of UG Course 'Earth Sciences: Methodology and Ethics', VU Amsterdam.

Postdoctoral Supervision

Research Fellow Berris Charnley, 2011-2012; Visiting Scholar Adam Toon, 2013; Research Fellow Nadine Levin, 2013-2014; Post-Doctoral Fellow Jennifer Cuffe, 2013-2016; Research Fellow James Lowe, 2015-2016; Research Fellow Louise Bezuidenhout, 2016; Research Fellow Richard Carter, 2016;

Research Fellow Niccolo Tempini, 2014-2019; Research Fellow Becca Lovell, 2017-2018; Mentor for Engagement Officer Silvia Bortoli, 2018-2021; Research Fellow Hugh Williamson, 2019-2022.

Postgraduate Supervision

First supervisor PhD thesis:

Ongoing: Elis Jones 2018- ("Value Practices in Coral Reef Research"); Necmiye Akali 2017- ("The role of intuitions in philosophy"); Arthur Vandervoort 2020- ("Gender Disaggregation of Disaster-Related Data")

Completed: Luca Iori 2011–2013 ('Agricultural Genetics in Italy, 1900-1950'), Pietro Berti 2009–2014 ('Fuelling Expectations: UK Biofuels Policy'), Josephine Donaghy 2010–2014 ('Researchers' Assumptions and Mathematical Models: A Philosophical Study of Metabolic Systems Biology'); Nicholas Binney 2012-2017 ('History and philosophy of diagnosis: the case of heart failure'); Gregor Halfmann 2014-2018 ('The epistemology of oceanographic data practices').

Second or co-supervisor PhD thesis:

Ongoing: Dook Sheperd 2016- (co-supervised with Rachel Ankeny, Adelaide; "Bees as models for cognitive science"); Cassandra Bird 2020- (co-supervised with Daniel Williamson; "Ethics in algorithms"); Margaret Bolton 2020- (co-supervised with Regan Early; "Semantics of Biodiversity Data"); Alexander Mussnug 2021- (co-supervised with Shannon Valor, Edinburgh).

Completed: Alexandra Sojic 2008–2013 (co-supervised with Giovanni Boniolo in Milan; 'Bio-ontologies in Breast Cancer Research'), Sara Green 2012-2014 (co-supervised with Hanne Anderson in Aarhus, Denmark; "Philosophical issues in systems biology"), James Lowe 2011-2015 ('The Concept of Normal Development in Experimental Embryology'), Tarquin Holmes 2011-2015 ('The History and Epistemology of Wildtype'), Stefano Canali 2016-2019 (co-supervised with Thomas Reydon, Hannover, Germany: "Data between Environment and Health: An Epistemological Study of the Exosome"), Miguel Lopez Paleta 2013-2019 (co-supervised with Edna Suarez, UNAM, Mexico; 'Chicken as a model organism').

Mentor PhD thesis:

Kai Wang 2011-2012; James Watson 2011-2017; Thibault Racovski 2013-2017.

PhD and undergraduate Research Assistants:

Tarquin Holmes (2012), James Lowe (2013), Javier Suarez Diaz (2017), Alex Rose (2018-2019).

Supervisor MA dissertation:

Josephine Donaghy 2009; James Lowe 2010; James Platt, Tarquin Holmes, Federico Boem 2011; Riccardo Ricci 2012; Erik Svetich and Alper Yardimci 2013; Sarah Ward 2015; Elis Jones 2019.

Supervision for visiting MA or PhD students:

Ranjit Singh, 2010 (The Netherlands); Miguel Lopez Paleta, 2012 (Mexico; co-examiner MA thesis); Jessey Wright, 2015 (Canada); Julia Delgado, 2016 (UCL); Inge de Bal, 2016 (Gent); Danielle Rhianna Lemieux, 2018 (Adelaide).

Examiner Roles

External Examiner Taught Programmes in Philosophy of Science (undergraduate and postgraduate levels), Department of Science and Technology Studies, University College London (2013-2017).

PhD Examiner: Alexander Powell (2010, Exeter), Pierre-Olivier Methot (2012, Exeter), Sara Green (mid-term review 2012, Aarhus), Ann-Sophie Barwich (2013, Exeter), Dominic Berry (2014, Leeds), Rolf Hvidtfeldt (2016, Copenhagen), Javier Suarez-Diaz (upgrade 2017, Exeter), Tara Mahfoud (2017, Kings College London), Thomas Bonnin (2018, Exeter), Harry Lewendon-Evans (2018, Durham), Maria Dede (upgrade 2018, Exeter), Richard Sim (upgrade 2018, Exeter), Eglantine Schmitt (2018, Paris Sorbonne), Romina Zuppone (2018, Barcelona), Louana Poliseli (2018, University of Salvador, Bahia), Virginia Ghiara (2019, University of Kent), Stefano Canali (2019, University of Hannover), Sophie Veigl (2020, University of Vienna), Rosalind Attenborough (2020, University of Edinburgh), Prakhar Manas (2021, University of Bristol).

Language Skills

Italian, English: Fluent. *French, Spanish, Dutch:* Advanced. *Modern Greek:* Intermediate. *German:* Basic.

Professional Associations

Society for the Philosophy of Science in Practice [SPSP].
Philosophy of Science Association [PSA].
European Philosophy of Science Association [EPSA].
International Society for the History, Philosophy & Social Studies of Biology [ISHPSSB].
American Association for the Advancement of Science [AAAS], section L.
British Society for the Philosophy of Science [BSPS].
Society for the Philosophy of Information [SPI].
European Association for Science and Technology Studies [EASST].
Society for the Social Studies of Science [4S].
Association of Italian Scientists in the UK [AISUK].
Talented Italians in the UK [TIUK].
Royal Society of Biology [RSB] since 2012, elected Fellow in 2019.

Conference and Seminar Organisation

2021

Co-organiser of Thematic Session "Plant data science between policy and technology: Reframing plant research to serve global food security", 2021 ISH meeting (with Hugh Williamson).
Co-organiser of "Responsible Plant Data Linkage" International Seminar Series, **Alan Turing Institute**, March 5-26 (with Hugh Williamson).
Programme Committee for 10th International Conference on Data Science, Technology and Applications (DATA 2021: <http://www.dataconference.org>).

2020

Co-organiser of Thematic Session "Plant Data Semantics and Food Security: Incorporating Local Imperatives into FAIR Data Linkage Tools" at International FAIR Convergence Symposium, **Paris**, December 1-4 (with Hugh Williamson, online event).
Book launch Data Journeys in the Sciences, University of **Exeter**, July 3 (online event).
Programme Committee for the Biennial Meeting of the Society for the Philosophy of Science in Practice. **Madison State University**, July 7-10. *CANCELLED due to pandemic*
Co-organiser of Thematic Session "Plant data science between policy and technology: Reframing plant research to serve global food security", 2020 Meeting of the Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE), **Madison State University**, July 6-8 (with Hugh Williamson). *CANCELLED due to pandemic*

2019

Co-organiser of "AI between Plant and Agricultural Science: Green Paths towards Environmental Intelligence" Conference, **Alan Turing Institute**, London, December 16 (with Hugh Williamson).
Programme committee for second PhilBioinMed conference in **Bordeaux**, October 14-18.
Programme committee for biennial meeting of the European Philosophy of Science Association 2019, **Geneva**, September.
Programme committee for the Congress for Logic, Methodology and Philosophy of Science 2019, **Prague**, August 5-10 (responsible for the section "Philosophy of Emerging Sciences").
Co-organiser of international workshop on "Animal Research Unbound", **Exeter**, July 15-17 (with Rachel Ankeny, Gail Davies and Rob Kirk).
Co-organiser of thematic double session "Organism Names In and Out of Biology", Biennial Meeting of the International Society of the History, Philosophy and Social Studies of Biology, **Oslo**, July 9-12 (with Beckett Sterner).
Co-organiser of "Values in HPS", 12th meeting of the UK Network of Integrated HPS, **Exeter**, June 20-21 (with Ric Sims, Adrian Currie and Kirsten Walsh).
Organiser of Symposium "Big Data", American Association for the Advancement of Science, **Washington DC**, February 14-18 (with Nancy Nersessian).

2018

Co-organiser of thematic symposium "Beyond theory-centric studies of scientific progress: Repertoires in biology", SPSP cognate session of the Philosophy of Science Association meeting in **Seattle**, November 1.

Co-director of European Advanced Seminar in the Philosophy of Biology 2018 on the theme of "Interdisciplinarity in the Life Sciences", Konrad Lorenz Institute, **Austria**, September 10-14 (with Thomas Reydon).

Programme committee for the Biennial Meeting of the Society for the Philosophy of Science in Practice. **Gent**, 29 June – 2 July.

Program committee for East European Network for Philosophy of Science 2018 (EENPS 2018), 20-22 June, **Bratislava**.

Program committee for Models&Simulations 8 Conference (MS8), Columbia, New York, March 15-18.

Co-organiser of the Research Data Alliance EU Science Workshop 2018 "Strategies and tools for data sharing: researchers in dialogue with the Research Data Alliance", Royal Netherlands Academy of Arts and Science, **Amsterdam**, January 17-18.

2017

Final ERC DATA_SCIENCE Conference "The Epistemology of Data-Intensive Science: Varieties of Data Journeys" (with N. Tempini), **Exeter**, November 2-3.

Symposium on "Trustworthiness, Quality and Value in the Age of Big Data", **Exeter**, October 17 (with UK Statistical Authority).

Deputy Chair of the Local Organising Committee for the European Philosophy of Science Association 2017 meeting, **Exeter**, September 6-9.

Symposium "Data Amalgamation", biennial meeting of the European Philosophy of Science Association (EPSA 2017), **Exeter**, September 6-9.

Symposium "Organisms From Here To There: Exploring the Effects of the Local and of Place on Research with Organisms" (with R. Ankeny, M. Dietrich) within the 25th International Congress of History of Science and Technology, **Rio de Janeiro**, Brazil, 23- 29 July.

Thematic Session "Data Integration in Biology and Biomedicine", ISH biennial meeting, **Sao Paulo**, Brazil, 17-22 July.

International Conference "Critical Studies of Citizen Science in Biomedical Research" (with B. Prainsack, B. Strasser, A. Buyx), Kings College **London**, March 2-3.

International Workshop "Data Journeys in Biomedicine: Data Use, Research Translation and the Management of Infrastructures" (with N.Tempini), **Exeter**, January 12-14.

2016

Symposium "Data in Time: The Epistemology of Historical Data", PSA 2016 (biennial Philosophy of Science Association conference), **Atlanta**, November 3-6. Review of the symposium by Adrian Currie here: <http://www.extinctblog.org/extinct/2016/11/14/the-swamp-zombies-journey-breathing-new-life-into-old-data>

Programme Committee for PSA 2016 (biennial Philosophy of Science Association conference), **Atlanta**, November 3-6.

Track "The Lives and Deaths of Data" (with B. Rappert) for 4S/EASST 2016 (joint conference of the Society for the Social Studies of Science and the European Society for Science and Technology Studies), **Barcelona**, August 31- September 3: the track comprised five sessions for a total of 24 papers.

Programme Committee for Biennial Conference of the Society for the Philosophy of Science in Practice, **Rowan**, NJ, USA, June 17-19.

Organising Committee for Global Young Academy Annual General Meeting 2016 "Building Bridges in Science and Diplomacy", **Eindhoven**, The Netherlands, May 24-29 (in particular, I organised the Open Data and Science Diplomacy Plenary Session)

Egenis/ESRC Workshop "Pacing Science", **Exeter**, May 16-17 (with A. Kelly, L. McGoey, B. Rappert, L. Bezuidenhout).

International Egenis/GARNet Workshop "Integrating Large Data Into Plant Science". **Exeter**, April 21-22 (with R. Bastow, D. Salt and G. Parry).

GYA/Egenis Workshop "Global Access to Open Software: Fostering Uptake", **Exeter**, January 22.

2015

Symposium "Situated Cognition and Scientific Practice", EPSA Biennial Conference, **Duesseldorf**, September 23-26 (with A. Toon).

Thematic Session "Situating Organisms: Perspectives on 20th Century Biology", ISHPSSB Biennial Conference, **Montreal**, July 5-10 (with R. Ankeny).

Double Symposium "Data Practices in Biology and Biomedicine", SPSP Biennial Conference, **Aarhus** (DK), June 26-29.

Chair of Programme Committee for Biennial Conference of the Society for Philosophy of Science in Practice, **Aarhus** (DK), June 26-29.

Egenis/Data Studies Workshop "Understanding in Scientific Practice", **Exeter**, February 16 (with A. Toon).

2014

International Exploratory Workshop 'What Is Data-Intensive Science?', **Exeter**, December 17-19.

International Conference 'Dark Data and Knowledge/Value', **Exeter**, December 15-16 (with G Davies, B Rappert and K Sunder Rajan).

Programme Committee for Annual Conference of the Italian Society for Logic and Philosophy of Science (SILFS). **Rome**, June.

2013

International Workshop "The Value of Open Science". **Exeter**, December 12-13.

(with O. Soyer and M. O'Malley) Philosophical Perspectives on Evolutionary Systems Biology. International Expert Workshop, KLI Altenberg, **Austria**, September 5-8.

Roundtable 'Plant Science: Its Role in Biology'. Biannual Meeting of the International Society for the History, Philosophy and Social Studies of Biology, **Montpellier**, July 9-11.

Programme Committee for Biannual Meeting of the Society for the Philosophy of Science in Practice, University of **Toronto**, June 26-28.

(with O. Soyer) International Workshop 'Understanding Evolvability and Robustness'. University of **Exeter**, 18 January.

2012

(with K. Haynes and J. Dupre) Respecting Complexity: New Methods and Concepts for a More Robust Synthetic Biology. International Workshop, **Exeter**, 13-14 December.

(with R. Bastow) Conference: Making Data Accessible to All. **Exeter**, 12-13 July.

(with B. Charnley) Workshop 'Credit in Science'. **Exeter**, 29 May.

Workshop 'On the epistemology of biology'. **Exeter**, 30 March.

(with O. S. Soyer) Workshop "Robustness in Biology and Engineering". **Exeter**, 16 March.

(with B. Charnley) Workshop "Ethical Issues in Agriculture". **Exeter**, 10 February.

2011

Chair of the local organising committee and member of the programme committee for the Biannual Meeting of the Society for the Philosophy of Science in Practice (22-24 June, **Exeter**).

International Conference 'Making Sense of Large Databases: Perspectives Across the Sciences' (20-21 June, **Exeter**).

Teaching panel in Integrated HPS workshop (18-19 April, **Cambridge**).

(with G. Davies and E. Frow) International Workshop 'Making It Big' (17-18 March, **Exeter**).

2010

Workshop 'Mayr's Legacy' (17 September 2010, **Exeter**).

Fifth Integrated HPS Workshop 'What is HPS for?' (28-29 June 2010, **Exeter**).

International Conference 'Data-Driven Research in the Biological and Biomedical Sciences' (15-16 April 2010, **Exeter**).

Workshop 'The Governance of Data Sharing', Egenis, **Exeter** (2 March 2010).

2009

Symposium 'The Epistemic Role of Model Organisms'. Biannual Meeting of the Society for the Philosophy of Science in Practice (June 19 2009, **Minneapolis**).

Member of the programme committee for biannual meeting of European Philosophy of Science Association, **Amsterdam**.

Organiser of weekly Egenis seminar series, University of **Exeter**.

2008

International Workshop 'Making Small Facts Travel: Labels, Packages and Vehicles' (27-28 March 2008, **LSE**).

2007

Organiser of weekly 'How Well Do Facts Travel' seminar series, **London** School of Economics.

(with E. Mattila and E. Ramsden) Symposium 'How Do Practices Move Knowledge Around? Insights from 'Facts' Travelling across Disciplinary Domains' (24 August 2007, **Twente**, NL).

Thematic session 'Bio-ontologies: A New Type of Theory in Biology?'. Biannual Meeting of the International Society for the History, Philosophy and Social Studies of Biology [ISHPSSB] (25-29 July 2007, **Exeter**, UK).

2006

Programme committee for International Conference 'Science and Democracy' (**Ghent**, Belgium, 28-30 September 2006).

Thematic session: 'Scientific Facts: Whose Expertise?' at the International Conference 'Science and Democracy' (**Ghent**, 28-30 September 2006).

(with Pieter Dehon and Jeroen van Bouwel) Expert Workshop 'Science and Social Movements' (27 September 2006, VU **Brussels**).

Symposium 'Modeling and Experimentation in Biology' (23 May 2006, VU **Amsterdam**).

2005

(with H. de Regt and K. Eigner) International Conference 'Philosophical Perspectives on Scientific Understanding' (24-27 August 2005, VU **Amsterdam**).

2004

(with S. Ortmann) GJSS International Workshop on Interdisciplinarity in the Social Sciences: 'Unity or Pluralism in the Social Sciences?' (24-25 September 2004, **LSE**).

(with faculty committee) Free University Opening Conference for Academic Year 2004-5 (2-3 September 2004, **Mennorode**, NL).

(with T.A.C. Reydon) NVWF Symposium 'Philosophy of Biology in the Netherlands and Belgium' (13 Februari 2004, VU **Amsterdam**; reviewed by Lemmens, P. (2004): 'Biofilosofen bezorgd om de toekomst van hun vak', *Algemeen Nederlands Tijdschrift voor Wijsbegeerte*, 96).

Presentations and Public Lectures

2021

Invited talk, **GEOS** Seminar, University of **Wageningen**, 9 December: "The Dilemmas of Openness: Sharing Knowledge Across Research Environments"

Contributed talk, Symposium "Opening Up Science", **Philosophy of Science Association 2020** meeting in **Baltimore**, November 19-22: "Open Science and Epistemic Diversity: Friends or Foes?" (postponed from 2020).

Invited speaker at **SPRU Freeman Friday Seminars**, University of **Sussex**, TBD: "Navigating Data Inequity within Scientific Knowledge Production"

Invited seminar, History and Philosophy of Science Department at **University of Indiana Bloomington**, September 30: TBA.

Keynote, Conference on Biodiversity organised by the **Leopoldina**, Academy of Sciences, Halle, September 23-24: "Reframing Biodiversity from the Data Up: Challenges from Plant Data Semantics" (postponed from 2020)

Keynote, 5th Conference on Post-Normal Science (**#PNS5**), **Florence**, September: "What is "good data science"? Digital challenges to the quality and reliability of empirical inquiry"
https://pns5.biostatistica.net/page.php?h_keynote_speakers (postponed from 2020)

Keynote, Annual meeting of the **British Society for the Philosophy of Science**, July: TBA.

Contributed talk, Virtual Conference **CGIAR Histories**, June 28: "Describing Crops in the CGIAR Era" (with Helen Curry).

Keynote, Research Ethics Conference, Exeter, June 25: "Where Is Ethics in Research Practice?"
<https://www.researchethicsconference.co.uk/>

Invited seminar, POLICY AID Final Conference, University of **Copenhagen**, June 4: "Data Linkage in Times of Pan(dem)ic: Towards Socially Robust Interventions"

Invited speaker, Edinburgh Futures Institute Seminar Series, University of **Edinburgh**, May 27: "Big Data and the Nature of Scientific Inquiry"

IRSA Distinguished Lecture, Conference "Big Data and Reproducibility", Institute for Research on Statistics and its Applications and Minnesota Centre for the Philosophy of Science, May 6-8: TBA.

Contributed talk, Conference "Philosophy of Plant Science", Egenis, **Exeter**, May 5-7: "Process-Sensitive Naming: Crop Descriptors and the Shifting Semantics of Plant (Data) Science".

Keynote, Boston University Graduate Student Philosophy Conference, April 23: "Where to Go with the Philosophy of Data?".

Invited panelist, **Festival dei Diritti Umani 2021** (Italian Festival of Human Rights) on "Algorithmocracy", April 21-22: TBA.

Invited panelist, Symposium on Metascience organised by the **Centre for Open Science**, April 20: TBA.

Contributed talk, Conference on Responsible Data Linkage, **Alan Turing Institute & University of Exeter**, March 26: "Responsibility Beyond Ethics and Infrastructures" (with H Williamson)

Invited talk, Session "Mitigation and Resistance", **AI UK 2021**, March 24: "Making Data Work for the Planet".

Keynote, International Conference "**Digital Approaches to the History and Philosophy of Science**", University of Louvain, March 15-17: "Rethinking HPS through Digital Studies"

Invited panelist, Symposium "Data, Society, and Open Science III: Challenges for data management and data-based research", **European Open Science Cloud seminar series**, March 1.

Invited talk, **University of British Columbia**, STS Seminar series, February 24 (online lecture): "Data Science in Times of Pan(dem)ic"

Invited Panelist, Conversation on Covid and Global Health, **Centre for the Study of Developing Societies, Delhi**, 12 February: "Beyond Global Health? Diasporic Perspectives on Health and Social Justice" (delivered remotely) https://www.cds.in/beyond_global_health_panel_discussion

Invited talk, Seminar series of the Institute for Science in Society of **Radboud University**, January 26: "Reproducibility Rewired: The Dangers of Technical Fixes in Times of Pan(dem)ic"

Invited panelist, Symposium on **Open Access in Philosophy of Science**, January 13 (online seminar): "Why Open Access Matters"

Invited talk, **GCRF Blue Communities Seminar Series**, January 11: "How data governance supports good science" (online seminar, 120 participants)

2020

Invited lecture, Conference "**Artificial Intelligence and Agnostic Science**", Sorbonne, **Paris**, December 15: "Are findings from philosophy of big data compatible with views of AI as agnostic science?" (delivered remotely) <https://scai.sorbonne-universite.fr/public/events/view/550617451f1e06ee0093/5>

Invited lecture, Data Ethics Webinar Series, **University of Oregon**, December 9: "Data Science in Times of Pan(dem)ic: From FAIR Data to Fair Data Use" (delivered remotely)

Contributed talk, **International FAIR Convergence Symposium**, Session "Plant Data Semantics and Food Security: Incorporating Local Imperatives into FAIR Data Linkage Tools", Paris, November 30: "FAIR Data and Climate-Adaptive Plant Breeding" (with Hugh Williamson).

<https://conference.codata.org/FAIRconvergence2020/sessions/187/> ; <https://web-eur.cvent.com/hub/events/c407330f-1b56-49c8-88c4-f51bd7844811/sessions/e2ff4729-943f-4293-a87b-9ccc5a9620d7>

Invited lecture, Seminar Series Science in Transition, Graduate School in Life Sciences, **University of Utrecht**, November 27: "How (Data) Science Supports Life with COVID-19: or, What We All Need to Slow Down" (delivered remotely)

Invited talk, Royal Institute of Philosophy Lecture, **University of Kent**, November 25: "Processual Empiricism in the Covid-19 Era" (with J. Dupré).

Panelist, **Book Launch** of "Model Organisms", University of **Adelaide**, November 23 (virtual event).
<https://universityofadelaide.app.box.com/s/58wvnlwzqmkr60x0w1d4f1a2pzyb77>

Invited talk, **STS Italia Forum** "Pandemia e Interdisciplinarietà", La Sapienza, Roma (virtual attendance),
 20 November: "La scienza dei dati di fronte alla pandemia: sfide e priorità"
<http://www.stsitalia.org/STS%20Italia%20-%20Webinar%20La%20pandemia%20sfida%20i%20confini%20disciplinari',%2020-11-20.mp4>

Keynote, Society for Computation in Psychology, virtual annual conference, November 19:
 "Prospects for the Automation of Research: Reproducibility and Human Agency".

Keynote panelist, Phaidracon 2020, November 17: "Scrutiny and Repeatability: The Danger of Post-Truth Academia".

Invited speaker, Political Theory Reading Group, University of **Exeter**, November 18: "Covid and the challenge of translationalism"

Invited speaker, Falling Walls Circle Table "The Understanding of the Scientific Method in the 21st Century", organised by the European Research Council for the **World Science Forum**, November 5
<https://falling-walls.com/event/circle-table-understanding-the-scientific-method-in-the-21st-century/>; Video of the panel: <https://www.youtube.com/watch?v=IEBaknKY6do>

Keynote, Conference "UK-China Tech for Global Good Roundtable: Climate, Clean and Green Tech", **British Embassy in Beijing**, October 28: "AI for the Green Agenda: What Data Landscape Do We Need?" (with Gavin Shaddick)

Contributed talk, Egenis Seminar Series, University of **Exeter**, October 5: "Processual Empiricism in the Covid-19 Era" (with J Dupré).

Invited speaker, **Digital Ethics Forum 2020**, October 2: "Perche' condividere dati sulla salute, e come farlo in maniera responsabile?" (delivered remotely) Video of intervention:
<https://www.youtube.com/watch?v=D60ZS-p0Ig&feature=youtu.be>

Keynote, IDC Digital Forum: Data Strategy 2020, September 29: "Dati, Algoritmi e Società: Più Opportunità o Paure?" (online event)

Contributed talk, Political Ecology Network Conference **POLLEN 2020**, September 23: "Speed, Statistics and Speed: Implications of Focusing Plant Breeding on Genetic Gain" (with Hugh Williamson, presenting). <https://event.pollen2020.exordo.com/presentation/510/p029-g0-speed-statistics-and-seed-implications-of-focusing-plant-breeding-on-genetic-gain>

Keynote, Open-Access-Tage 2020, Bielefeld, Germany, September 15-17: "Opening the Research Process: From Publications to Data, and Back Again" (delivered remotely)

Invited Mentor for virtual session on "Publishing challenges: Negotiating interdisciplinarity and Open Access", organised by **European Advanced School for the Life Sciences**, September 9.

Keynote, Swiss Summer School "Open Data and Open Access", University of **Zurich**, August 28: "Plan S: What It Means for Researchers" (delivered remotely)

Invited speaker, **Synthace industry webinar** "The Metadata Responsibility", 25 August: "Understanding Data Science through Data Journeys" https://www.synthace.com/about/events/detail/the-metadata-responsibility-webinar/?utm_content=137921302&utm_medium=social&utm_source=twitter&hss_channel=tw-742368693917732864

Keynote, Opening Plenary Symposium "Science at the Speed of a Pandemic", 2020 (Virtual) **FORCE11**, Scholarly Communications Institute, August 3. <https://www.force11.org/fsci/2020/plenary-events>
 Recording and transcript of the session: <https://ucla.zoom.us/rec/play/uZN7db2p-zg3TtPD5QSDV6J6W9W4L66s1ShN-KEKyhy9USUKZlf3ZLUQNORy0BNoRmhtNRBzdQWYhfm8?startTime=1596499311000>

Contributed talk, Society for the Philosophy of Science in Practice, **Minnesota State University**, Lansing, July 8-10: "Organisms as Models between Representation and Intervention"

Contributed talk, 2020 Meeting of the Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE), Minnesota State University, July 6-8: "Plant data science between policy and technology: Reframing plant research to serve global food security" (cancelled due to COVID)

Keynote, Advances in Data Science Conference, University of **Manchester**, June 22-23: "Intelligent Data Linkage and Distributed Semantics for (Big) Data Interpretation" (delivered remotely) Lecture URL: https://www.youtube.com/watch?time_continue=5&v=2qYkdT12etM&feature=emb_logo

Invited speaker, "Distanti e connessi: società digitale dopo il COVID", **R2B OnAir 2020** (Research to Business: Salone internazionale della ricerca industriale e della competenza nell'innovazione), June 11. URL: <https://www.rdueb.it/Event/digital-life/>

Invited talk, **The CogX Global Leadership Summit and Festival of AI & Breakthrough Technology 2020**, Session Data Science for Science: "Plant and Agricultural Science", June 11, URL: <https://cogx.co/topics/research-the-long-view/> (with Hugh Williamson)

Invited speaker, "**Calculating Trust**" virtual conversation organised by Department for History and Philosophy of Science, University of **Cambridge**, May 28. URL: <https://www.hps.cam.ac.uk/news-events/seminars-reading-groups/departmental> VIDEO: <https://sms.cam.ac.uk/media/3234026>

Keynote, VI ESCo TECH FORUM on "Efficienza Energetica e Sostenibilità – COVID-19, Acceleratore del Cambiamento?", within IOTHINGS WEEK, May 26: "Utilizzo i Big Data come aiuto alla "vita con Covid-19" per migliorare la sostenibilità' e l'immagine delle aziende". URL: http://www.iothingsweek.com/palinsesto/#26_2 (delivered remotely)

Invited speaker, **Futures Institute Seminar Series**, University of **Edinburgh**, May 28: "Big Data and the Nature of Scientific Inquiry" *postponed due to coronavirus*

Roundtable **STS Approaches to Covid-19**, organised remotely by the Virginia Tech STS Program, 24 April: "Emergency Data Science?" <https://www.facebook.com/VirginiaTechSTS/posts/sts-approaches-to-covid-19-a-roundtable-discussion-the-panel-jenny-reardon-ucsc-3706158566123625/>

Invited speaker at **SPRU Freeman Friday Seminars**, University of Sussex, April 24: "Navigating Data Sharing and Inequity within Scientific Knowledge Production" *Postponed due to coronavirus*

Invited Webinar, Webinar Series on Agriculture, **Research Data Alliance (RDA) & Food and Agriculture Organisation (FAO)**, April 9: "Intelligent Plant Data Linkage: A View from History, Philosophy and Social Studies of Science". URL: <https://f1000research.com/slides/9-260> ; <http://aims.fao.org/capacity-development/webinars/rdaigad-webinar-series-intelligent-plant-data>

Invited *Lectio*, **EnergyWay**, April 7: "Looking Ahead, Helping Today: Emergency Data Science"

Invited Webinar on **COVID data modelling** for "History of Science on Call" project of the Max Planck Institute for the History of Science, March 2020: <https://www.mpiwg-berlin.mpg.de/video/history-science-call-sabina-leonelli> (English); <https://www.mpiwg-berlin.mpg.de/video/history-science-call-sabina-leonelli-italian> (Italian)

Invited speaker, "Involved Philosophy Workshop: Data, Trust and Diversity", Tel-Hai College Upper Galilee, **Israel**, April 1: "Datification as a Tool for Representation". *Postponed due to coronavirus*

Invited speaker, Department of Anthropology, Seminar Series "Human and Non-Human Adaptations to Changing Environments", University of **Oxford**, March 13: "Between Local Communities and International Law: How Ontologies Help Plant Data to Cross Borders" *Postponed due to strike*

Invited speaker at Francis Bacon Conference "Transnational Transactions: Negotiating the Movement of Knowledge Across Borders", **Caltech**, Pasadena, February 19-22: "How Data Cross Borders: Globalising Plant Knowledge through Transnational Data Management"

Invited seminar at Institute for Science and Genetics, **UCLA**, February 18: "What Data Practices Mean for Understanding the Sciences"

Invited speaker for the Inaugural Event of the Exeter X-AI Society, **Exeter**, February 3: "Can AI Be Responsible? The Role of Humans in Automated Systems"

Invited speaker for the International Workshop "Philosophical Issues in Cancer Biology", University of **Bristol**, January 29: "Actionable Data for Precision Oncology: Building Trustworthy Evidence for Diverse Research Spaces".

Invited talk at International Plant and Animal Genome conference (**PAG**) 2020, Workshop on "Challenges and Opportunities in Plant Science Data Management", January 11-15, **San Diego**: "Tracking data linkage for intelligent and responsible reuse" (with and presented by Hugh Williamson). <https://www.intlpaq.org/2020/>

Invited talk in "Do we need an historiography of science?" session of the conference Turning the Mirror: From Scientific Pluralism to Pluralism in HPS, University of **Exeter**, January 8-9: "Do we need a philosophical outlook on historiography to do our job?"

2019

Introductory talk for "AI between Plant and Agricultural Science: Green Paths towards Environmental Intelligence" Conference, **Alan Turing Institute**, London, December 16.

Keynote at **Cidacs** anniversary celebration, Salvador, Bahia, **Brazil**, December 6: "Placing AI at the service of public health: The role of data management and linkage"

<https://cidacs.bahia.fiocruz.br/?p=6009> ; video available on YouTube.

Invited speaker at Lakatos Award Expert Workshop with Henk W. de Regt, Centre for the Philosophy of Natural and Social Sciences, **LSE**, November 21: "Using organisms as models for life: Performative and social skills for understanding"

Invited speaker at **Sawyer Seminar** "Information Ecosystems: Creating Data (and Absence) From the Quantitative to the Digital Age", Humanities Centre, University of **Pittsburgh**, November 14: "Data In and Out of Information Ecosystems: Lessons from the Study of Data Journeys"

Keynote at V Congress of the Italian Association for Open Science (Associazione Italiana per la Scienza Aperta, AISA), University of **Udine**, November 8: "La Scienza Aperta: Dalla Teoria alla Pratica."

Keynote at Second Italian Congress on Education and Artificial Intelligence (EDuIA), Dipartimento di Scienza della Formazione, **Roma** Tre, November 7: "Come educare i data scientists a combinare l'AI con intelligenza umana"

Invited panelist at Springer/Wellcome Trust Conference "Better Science through Better Data 2019" (**#scidata19**), panel "Who is afraid of data misuse?", **London**, November 6. Slides available on https://figshare.com/articles/Panel_Discussion_Who_s_afraid_of_data_misuse_/10318823/2

Keynote at roundtable discussion "EU-LIFE Focuses on Open Science: Research Data, Research Institutes and Researchers", European Institute of Oncology, **Milan**, November 5: "Research Data Management: Lessons from the Study of Data Journeys".

Keynote at Avant-Conference: Trends in Interdisciplinary Studies (forth edition), University of **Porto**, October 24-26: "Distributed Reasoning in (Big) Data Interpretation" <http://avant.edu.pl/trends4/#/>

Contributed talk at IGAD Seminar, **Research Data Alliance**, **Helsinki**, October 22-25: "Intelligent Plant Data Linkage: A View from History, Philosophy and Social Studies of Science"

Plenary speaker at **Trieste NEXT** - Festival della Ricerca Scientifica (Italian Festival for Scientific Research) on "Le Nuove Frontiere della Ricerca Europea: Big Data, Deep Science", Teatro Miele, Trieste, 27-29 September: "La Ricerca Scientifica nell'Era dei Big Data"

https://www.triestenext.it/gw_relatori/sabina-leonelli/

Lectio magistralis at "Contemporary Harmonia Mundi", EnergyWay, **Modena**, September 13: "La Scienza dei Dati Oltre il 2020: Verso l'Innovazione Intelligente, Efficiente e Sostenibile"

<https://www.energyway.it/contemporary-harmonia-mundi/>

Invited speaker at "La Ricerca Scientifica Nell'Era dei Big Data: Author Meets Critics" symposium organised by Istituto per la Memoria e la Cultura del Lavoro, dell'Impresa e dei Diritti Sociali (Ismel), Polo del 900, **Torino**, September 12. <https://www.polodel900.it/evento/la-ricerca-scientifica-nellera-dei-big-data/> ; <http://www.sloweb.org/evento/big-data/>

Invited speaker at Session 2019 of the **Academie Internationale de Philosophie des Sciences** on "The Human Facing New Biomedical Technology", Prague, August 11-13: "Five Ways in which Big Data Threaten the Credibility of Science".

Invited plenary speaker for section "Philosophy of the Life Sciences" of the 16th International Congress of Logic, Methodology and Philosophy of Science and Technology (CLMPST 2019), **Prague**, August 5-10: "The Shifting Semantics of Plant (Data) Science"

Contributed speaker at 16th International Congress of Logic, Methodology and Philosophy of Science and Technology (CLMPST 2019), **Prague**, August 5-10:

- thematic session "Philosophy of Big Data": "Semantic interoperability: The oldest challenge and newest frontier of Big Data"
- co-authored paper (with Rachel Ankeny): "Organisms as Situated Models"

Invited speaker to Summer School in Philosophy and History of Science "Big Data nelle scienze fisiche, sociali, umanistiche e della vita", University of **Pavia**, July 17 (via Skype): "Big Data e la conoscenza scientifica"

Contributed speaker to "Animal Research Unbounded" Conference, University of **Exeter**, July 15-16 (with Rachel Ankeny): "Repertoires and Animal Movements In and Out of Research"

Contributed speaker at thematic double session "Organism Names In and Out of Biology", Biennial Meeting of the International Society of the History, Philosophy and Social Studies of Biology (ISHPSSB 2019), **Oslo**, July 9-12: "The Globalisation of Plant Descriptors and its Relevance to Biological Research"

Chair for thematic session "Stability and Migration of Research Strategies Within and Across Different Levels of Scientific Organization", Biennial Meeting of the International Society of the History, Philosophy and Social Studies of Biology (ISHPSSB 2019), **Oslo**, July 9-12

Contributed panelist to UK Integrated HPS meeting, Egenis, University of **Exeter**, June 20-21: "Values in HPS"

Keynote for the **10th Conceptions of Libraries and Information Science Conference** (CoLis), **Ljubljana**, Slovenia, June 16-19: "New Frontiers in Data Curation: A View from Scientific Practice"
Invited speaker at **Earlham Institute** Seminar Series, Norwich, June 11: "Opening Plant Data: Challenges of Dissemination and Re-Use"

Invited speaker at **IHPST Seminar** in Philosophy of Biology, Sorbonne, **Paris**, May 27: "What's in a name? The Globalisation of Plant Descriptors and Its Relevance to Biological Research"

Invited headline speaker at Journée PSL "Science des données, Données de la science", **Ecole Normale Supérieure Paris**, May 27: "Big Data, Open Data et la Recherche Scientifique". Video: <https://www.ohnk.net/open-data-guesaco-2019>

Invited speaker at **PhilinBioMed** Seminar Series, University of **Bordeaux**, May 24: "Actionable Data for Precision Oncology" <https://www.philinbiomed.org/event/sabina-leonelli-university-of-exeter-uk-title-tba/> Video: <https://www.philinbiomed.org/event/sabina-leonelli/>

Invited speaker for Astor Seminar Panel "The Trouble with Open Science", Institute for Science, Technology and Society, University of **Oxford**, May 21.

Keynote for the European Universities Association Workshop "[Research Assessment for Researchers' Recruitment and Career Progression](#)", May 14, **Brussels**: "Incentives and Rewards for Researchers in the Transition to Open Science". Video recording available soon.

Contributed speaker at **AAAS 2019** Session "Big Data: Crossing Boundaries to Facilitate Data Re-Use", **Washington DC**, February 14-18: "Lessons from the Study of Data Journeys".

Invited speaker (with Rachel Ankeny) at **National Academy of Science** Committee on Biological Collections, **Washington DC**, February 15: "A Philosophical Perspective on Biological Collections" <https://www8.nationalacademies.org/pa/projectview.aspx?key=51270>

Invited speaker at the **Max Planck Institute for the History of Science Colloquium Series** "Philosophy and the History of Science: A Troubled Relationship?", **Berlin**, January 22: "Data and the Quest for Facts: Empirical Knowledge in the Age of Big and Open Data".

2018

Invited speaker at **CWTS Symposium** "On Quality: What Will the Future of Valuing Science and Scholarship Look Like?", **Leiden** University, December 14: "Open Science: A Threat or an Opportunity for Research?"

Keynote at First French Open Science National Conference (Journées Nationales de la Science Ouverte), **Ministère de l'Enseignement supérieur, de la Recherche et de l'Innovation**, Amphithéâtre Poincaré, **Paris**, December 4: "Making Open Data Work for Research and Researchers"

Keynote at 5th Biennial Conference of the Greek Philosophy of Science Society, **Athens**, November 29 – December 1: "Re-Thinking Empiricism from the Data Up". http://greekphilsci.blogspot.com/p/blog-page_19.html

Invited speaker at Seminar Series "Human Sciences, Computer Science & Digital Media", Centro Internazionale di Studi Umanistici Umberto Eco, University of **Bologna**, November 23: "La Ricerca Scientifica Nell'Era dei Big Data"

Presentation at launch event of book "La Ricerca Scientifica nell'Era dei Big Data", Libreria Coop Zanichelli, **Bologna**, November 23.

Presentation at launch event of book "La Ricerca Scientifica nell'Era dei Big Data", **Leonardo da Vinci Museum of Science & Technology, Milan**, Sala del Cenacolo, November 22.

Plenary Speaker at **Philosophy of Science Association Public Forum** "Algorithms: For Whose Good? Questions of Value and Accountability in AI and Data Science" held during PSA2018 (biennial meeting of Philosophy of Science Association), Microsoft Auditorium of **Seattle** Central Library, November 1. Title of my talk: "Big data analysis and the human face of automated systems". <https://psa2018.philsci.org/en/74-program/program-schedule/program/124/psa2018-public-forum-for-the-public-good-values-and-accountability-in-ai-and-data-science> Video of my talk: <https://vimeo.com/301399662> ; Video of panel discussion: <https://vimeo.com/301400052>

Contributed talk to thematic session "Beyond theory-centric studies of scientific progress: Repertoires in biology", SPSP cognate session of the **Philosophy of Science Association** meeting in **Seattle**, November 1: "The Epistemological Significance of Repertoires: Tools to Understand Representational Attributions" (with Rachel Ankeny).

Contributed talk to session "Organisms without Borders: Transnational Travel Stories of Practices, Data, and Standards" at HSS2018 (annual meeting of the **History of Science Society**), **Seattle**, November 1-4: "Phenomic Data Between Local Fields and Global Databases: Developing Labels for Field Data Collection in Crop Phenomics, 1990-2016"

Lakatos Award Lecture, London School of Economics and Political Science, October 26: "Understanding Science from the Data Up" <http://www.lse.ac.uk/philosophy/events/lakatos-award-lectures-2018/>

Invited talk at Lakatos Award Expert Workshop with Sabina Leonelli, London School of Economics, October 25: "Data-Centric Biology" <http://www.lse.ac.uk/philosophy/blog/2018/10/02/lakatos-award-expert-workshop-with-sabina-leonelli/>

Keynote at "Science as a FACTory? Looking at Science Eye to Eye, not from above the Facts", Closing Workshop of the DK "The Sciences in Historical, Philosophical and Cultural Contexts" <http://dk-sciences-contexts.univie.ac.at/> University of **Vienna**, October 4-6: "Investigating Science through Involvement"

Inaugural lecture, University of Exeter, September 24: "What's the point of empirical philosophy? Making sense of Research in the age of Big and Open Data"

Director and moderator at **European Advanced Seminar in the Philosophy of Biology 2018** on Interdisciplinarity in the Life Sciences, KLI, Austria, September 10-14.

Contributed talk to **EASST 2018**, Lancaster, July 25-28: "Actionable Data for Precision Oncology: Developing a Trustworthy Data Source" (with N. Tempini, presenting).

Keynote Speaker at Biennial Conference of the Société de Philosophie des Sciences (French Society for the Philosophy of Science), **Nantes**, France, July 4-6: "Research in the Age of Big and Open Data".

Contributed talk at **&HPS 2018** meeting in **Hannover**, July 4-6: "How Organisms Represent" (with, and presented by, Rachel Ankeny). <https://hps7conference.wordpress.com/program/>

Contributed talk at Biennial Conference of the Society for the Philosophy of Science in Practice (SPSP), **Ghent**, Belgium, June 29 - July 2: "The Epistemological Significance of Repertoires: Tools to Understand Representational Attributions" (with, and presented by, Rachel Ankeny).

Keynote Speaker at Biennial Conference of the Society for the Philosophy of Science in Practice (SPSP), **Ghent**, Belgium, June 29 - July 2: "Philosophy of Science in the Age of Big and Open Data: What Does "Studying Practice" Involve?"

Invited talk for Philosophy Department of the Vrije Universiteit **Brussels**, Belgium, June 20: "What Are Data Models?"

Keynote Speaker at Biennial Conference of STS Italia "Technology from Below", University of **Padova**, June 14-16: "Big Data Mobilization: Subversive or Reactionary?"

Invited seminar at Department of Philosophy, University of **Groningen**, June 6: "Five Ways in which Big Data Can Destroy Science, and What to Do About It"

Contributed talk at **Planetary Health Meeting**, June 1-2: "Towards an Ethical Handling of Big Data in Environment and Human Health" (with L Fleming, R Lovell, B Wheeler, C Sarran, H Gordon Brown, G Leonardi, N Tempini, R Barciela, presented by L Fleming).

Contributed talk at PhenoHarmonis 2018, Agripolis Scientific Park, **Montpellier**, May 14-18: "Towards data studies of Roots, Tubers and Banana phenotyping"

Keynote Speaker at PhenoHarmonis 2018, Agripolis Scientific Park, **Montpellier**, May 14-18: "Open plant trait data: challenges of dissemination and re-use" <https://sites.google.com/a/cgxchange.org/cropontologycommunity/home/2018-phenoharmonis> <https://www.youtube.com/watch?v=7FwRC3Eos-I&list=PLpRdrILJLt1iC0vnMJ-Ty6WyAOfZVo2b4&index=15>

Invited seminar at Department of Philosophy, University of **Rotterdam**, May 14: "The Use of Invariant Parameters for Big Data Integration and Analysis"

Invited presentation at **European Universities Association**, Brussels, May 8: "Rewarding Open Science Within Research-Performing Institutions".

Invited talks at "Historical Research in Model Organism Biology" Workshop, **Cold Spring Harbour Laboratory**, April 22-24: "Making Organisms Into Models" (with R Ankeny) and "The Historiography of *Arabidopsis thaliana*" <http://library.cshl.edu/pages/Model-Organisms/>

Invited presentation at European Research Agency Stakeholder Meeting, **European Commission**, Brussels, April 17: "Results of the MLE on Open Science: Incentives and Rewards".

Invited presentation at Conference "La Cura Del Cancro e l'Innovazione Tecnologica: Aspetti Etici e Sociali", University of **Rovigo (Italy)**, April 13-14: "Produrre Conoscenza Attraverso la Cura dei Dati: La Costruzione di Evidenza Affidabile in COSMIC" (with N. Tempini, presenting).

Invited discussant in the closing panel of the "Process Biology" Conference, the Royal Institution, **London**, March 21-23. <http://socialsciences.exeter.ac.uk/sociology/events/probioprojectconference/>

Invited speaker at Workshop "New Perspectives on Open Science" and Launch Event for GYA Report "Global Access to Open Software", University of **Oxford**, March 20: "Implementing Open Science: Incentives and Rewards". Videos: <https://www.youtube.com/watch?v=No4BGXOw4kQ&list=PLvvHQgwqXT54zFkErGahmjZ9rJjYz8fFv&index=4> ; <https://www.youtube.com/watch?v=lu3GlpXUhes>

Keynote Speaker at IDCC2018 (the 13th International Digital Curation Conference), NH Collection Barcelona Tower, **Barcelona**, February 19-21: "No (Open) Science Without Data Curation: Five Lessons from the Study of Data Journeys"

Invited talk at the Department of Sociology, University of **Warwick**, February 7: "The Impact of Big and Open Data on Research"

Public Debate with Professor Heather Douglas, University of **Cambridge**, January 30.

Public lecture at **Trinity College**, University of **Cambridge**, January 29: "How to (Re)Use Big Data", organised by the Centre for the Study of Existential Risk and the Leverhulme Centre for the Future of Intelligence (event sold out a month in advance). Available on YouTube: <https://www.youtube.com/watch?v=mx9pIDbwJ5s>

Invited talks at CSER Workshop "Scientific Governance at the Ground Level", Centre for the Study of Existential Risk, University of **Cambridge**, January 29-30: "Open Science as an Approach to Research Governance"; and "Is the Current Research System Broken?"

2017

Invited talk in the 58th edition of the 2017-2018 Annual Lecture Series of the **Pittsburgh Centre for Philosophy of Science**, University of Pittsburgh, December 1: The Epistemology of Data Use: Conditions for Inferential Reasoning in the Age of Big Data Science. Available on YouTube: <https://www.youtube.com/watch?v=qc1aQep4DE8>

Keynote Speaker for "Big Data and the Philosophy of Science" Seminar, part of the "Humanity and Technology at the Crossroads: Where Do We Go from Here?" Andrew W. Mellon Sawyer Seminars Series at the **Boston** Centre for Philosophy and History of Science, November 27-28.

Invited talk at MLE Open Science Country Visit in Switzerland, **Zurich**, November 10-11: "A Roadmap to Open Science: Experiences, Strategies and Models"

Plenary Speaker at **World Science Forum 2017**, Session "The Opportunities and Challenges of Digital Transformation," Jordan, November 6-9: "Using Open and Big Data to Benefit Humanity" http://worldscienceforum.org/programme?programe_search_text=&day_id=3&type_id=0&venue_id=0 ; video of plenary: <https://www.youtube.com/watch?v=rlzPGlyZJqk>

Introduction and contributed talk (with Marcel Boumans) for International Conference "Varieties of Data Journeys", **Exeter**, November 2-3: "Data Journeys as Units of Analysis"; and "From Dirty Data to Tidy Facts"

Invited talk at Conference "Making Sense of Data-Intensive Science", Leibniz University, **Hannover**, October 26-27: "Aggregating to Disaggregate: Using Invariance Strategies to Analyse Big Data"

Keynote Speaker at "Future Open Science Services for Scientific Communities" Conference organised by European Open Science Cloud and OpenAIRE in **Berlin**, October 24: "Towards the European Open Science Cloud: Four Lessons from the Study of Data Journeys" <https://eoscipilot.eu/future-open-science-services-scientific-communities-agenda>

Response to Ed Humpherson (UK Statistics Authority), Symposium on "Trustworthiness, Quality and Value in the Age of Big Data", **Exeter**, October 17: "Data Quality Challenges: A View from the History, Philosophy and Social Studies of Science"

Keynote Speaker at Swedish National Conference "Coordination of Open Access to Research Publication in Sweden", National Library of Sweden, **Stockholm**, October 17: "Open Science: Why and How" http://openaccess.blogg.kb.se/files/2017/10/OA_Kickoff_Sweden_2017.pdf . YouTube video of the

lecture: https://www.youtube.com/watch?v=q4_UBAtms0k&index=2&list=PLZVKEICvA5-EJG7Hok3L9dDq_haIg-d63

Invited talk at MLE Open Science Country Visit in Croatia, Centre for Advanced Studies, **Dubrovnik**, September 12: "Incentives and Rewards to Engage in Open Science Activities"
<https://rio.jrc.ec.europa.eu/en/policy-support-facility/mle-open-science>

Plenary talk at Biosciences Research Away Day, Royal Albert Museum, University of **Exeter**, September 11: "How to Use Big and Open Data to Do Better Science"

Contributed talk at symposium "Data Amalgamation" within the **European Philosophy of Science Association Conference**, Exeter, September 6-9: "Health and Environment Data Integration"

Invited talk at Conference "Imagination and Surprise", University of **Utrecht**, August 31-September 1: "Re-Thinking Reproducibility as a Criterion for Research Quality"

Contributed talk to CHSTM Congress in **Rio de Janeiro**, Brazil, July 23-29: "When Plant Traits Go Online: Phenomic Data between Local Fields and Global Databases"

Contributed talks to Biennial Meeting of the International Society for the History, Philosophy and Social Studies of Biology 2017, **Sao Paulo**, Brazil, July 16-21:

(1) "Studying Plant Traits Across Cultures: Data Integration in Plant Phenomics"

(2) "Using Organisms as Models" (with R. Ankeny)

Invited talk at Western Africa Hub, **International Institute for Tropical Agriculture**, Ibadan, **Nigeria**, July 5: "Towards a Sustainable Approach to Open Plant Data: Challenges of Data Sharing and Re-Use".

Keynote at triennial meeting of the **Italian Society for the Philosophy of Science (SILFS)** and the Italian Society for the History, Philosophy and Social Studies of Biology and Medicine (BIOM), **Bologna**, June 21-23. http://www.silfs.it/provvisorio/wp-content/uploads/2017/06/Poster-SILFS2017_HD.pdf

Invited Panelist for Big Data Analytics Conference on "Data Quality", organised by Cancer Research UK and Winton Capital Management, **Francis Crick Institute, London**, June 13.

<https://www.bigdataconference.co.uk/big-data-analytics-conference-2017-agenda/>

Invited Speaker for Data Debate "Health Data: Fit or Fail? The Use of Data in Healthcare", organised by the **Alan Turing Institute** at the **British Library**, London, June 12.

Contributed talk to **Global Young Academy Annual General Meeting** on "Social Justice", **Aviemore**, Scotland, May 15-19: "Open Data Standards and Global Inequalities in Research Environments: Deciding What Counts as Best Research Practice"

Invited speaker at **Roundtable on Open Access of the European Universities Association**, Brussels, May 4.

Keynote at Symposium on the implications of big data in the healthcare sector at the Centre de Recherche Médecine Sciences Santé Santé Mentale et Société (**CERMES3**) in **Paris**, April 19: "Biomedical knowledge production in the age of big data"

Invited speaker at "The End of the World? 2017 Existential Risk Symposium," Alumni Auditorium, University of **Exeter**, March 30: "Utopic and Dystopic Scenarios for the Social Impact of Big Data and Open Science".

Invited participant in **Open Science Conference 2017**, Berlin, March 21-22 <https://www.open-science-conference.eu/>

Invited speaker (as Chair of the Open Science Policy Platform Working Group on the future of scientific publishing) at **Berlin 13 Open Access Conference: Building Capacity for the Transformation** organised by the European Commission, **Berlin**, March 22: "OA2020 from the Perspective of the Open Science Policy Platform".

Invited speaker at Conference "Critical Approaches to Citizen Science", **London**, March 2-3: "Citizen Data Beyond "Citizen Science"."

Invited speaker at symposium "Practical Philosophy of Science: The Key To Better Policies?", hosted by the European Research Council at the **American Association for the Advancement of Science (AAAS) 2017 meeting** "Serving Society through Science Policy" in **Boston**, February 17-20: "The Epistemology of Data-Intensive Science and Its Implications for Science Policy"

Invited talk at ResViva International Conference "Sliding Doors: Prediction and Contingency in Biosciences", **Roma**, February 2-4: "The time of data: Big Data re-use and implications for predictive ability in biology and biomedicine"

Invited talk at Philosophy of Medicine Workshop organised by the Department of Philosophy of the University of **Calgary**, Canada, January 19-20: "Data Integration in Biomedicine: Practical Strategies and Epistemic Challenges"

Invited Seminar at Department for the Social Studies of Medicine, **McGill** University, Montreal: "Integrating big biomedical data: conceptual, technical and social challenges", January 18.

Introduction to the 3rd DATA_SCIENCE Workshop "Biomedical Data Journeys", **Exeter**, January 11-13.

2016

Invited Speaker for Digital Science **Webinar** "The State of Open Data", December 14, <https://www.digital-science.com/blog/events/digital-science-webinar-state-open-data-dswebinar/> (450 registered live listeners)

Invited Seminar at Department of Philosophy, **Durham** University, December 8: What Distinguishes Data from Models?

Invited Talk at Workshop "Scales and the Sciences", Institute of Advanced Studies, **Durham** University, December 7: Time-Scales of Data Processing.

Invited Seminar at Department of Computer Science, **Royal Holloway**, December 1: Challenges of Data Integration: the Impact of Digital Technologies on Biomedical Research.

Panelist for the Launch of the British Pharmacological Society Report "The Future of UK *in vivo* Education and Training: Lessons from the Integrative Pharmacology Fund", Genesis 2016 Conference, **Westminster**, December 1.

Contributed lecture to symposium "Data in Time: The Epistemology of Historical Data", **PSA 2016, Atlanta**, November 3-6: Time-Scales of Data Use: On The Life-Cycles, Ontology and Understanding of Biological Data.

Invited Seminar at Synthetic Biology Centre, University of **Edinburgh**, October 27: How to Transform a Project into a Research Community? A Philosophical Perspective on Scientific Change and Collaborative Research.

Invited participation in **Royal Society/British Academy** Roundtable "Governance of data: humanities and social science perspectives on data's collection, management and use", London, October 20.

Public lecture at **Business Leaders' Forum** Autumn Event of the University of Exeter on "Maximising Decision Making and Performance through Effective Data Management", October 13: Big and Open Data Challenges and Opportunities.

Invited talk at the **Twelfth World Conference "The Future of Science"** on Digital Revolution: What is Changing for Humankind?, Fondazione Giorgio Cini, **Venice**, September 24: Integrating Biological, Biomedical and Environmental Data: The Impact of Digital Technologies on Research.

Invited Panelist at "Global Challenges: Is Big Data the Answer?" Roundtable organised by **the World Academy of Science** (TWAS) within "TriesteNext – European Science Research Forum", **Trieste** (IT), September 23: Ingredienti per un Approccio Sostenibile a Big e Open Data (Spearheading a Sustainable Approach to Big and Open Data).

Keynote at Conference "Digitalisation, Big Data and the Objective of Theorizing", Annual Meeting of German Society for History of Science, Technology and Medicine (DGGMNT) Lubeck, September 16-18: What Difference Does Quantity Make? On the Epistemology of Data-Centric Science.

Contributed lecture to "Lives and Deaths of Data" Track at **4S/EASST** Conference, Barcelona, August 29-September 3: Journeys and Deaths of Scientific Data.

Contributed lecture to **&HPS6**, Edinburgh, July 3-5 (peer-reviewed, 15% acceptance rate): Repertoires: A Post-Kuhnian Approach to Scientific Change and Research Collaboration.

Contributed talk to 6th Biennial Conference of the Society for the Philosophy of Science in Practice, Rowan University, Glassboro (**Philadelphia**), June 16-18: The Function of Repertoires in Science.

Keynote at 4th meeting of Philosophy of Biology in the UK, **Bristol**, UK, June 8-9: Data Models and the Processing of "Big Data" in Plant Phenomics

Plenary Talk at GYA Annual General Meeting "Building Bridges", University of **Eindhoven**, NL, May 25-28: Data, Openness and Diplomacy.

Keynote at 7th Models&Simulations Conference, Universitat de **Barcelona**, Spain, May 18-20: What Distinguishes Data From Models?

Contributed lecture to conference "Pacing Science", Egenis, Exeter, May 16-17: Global Standards for Data Quality and the Situated Nature of Best Research Practices

Contributed talk to workshop "Scientific Models in Action", Egenis, Exeter, April 26: What Distinguishes Data From Models?

Introduction, Workshop "Integrating Large Data Into Plant Science", Dartington Hall, Totnes UK, April 21-22.

Invited Talk in the "Researcher Involvement" session of the **Open Science EU Presidency Conference** organised by the Dutch Ministry of Education, Culture and Society on the occasion of the Dutch Presidency of the EU, **Amsterdam**, April 4-5: Researchers' Views of Open Data Policies and Their Implementation: The Positions of the Young Academies of Europe and the Global Young Academy.

Invited Lecture, Conference on Integrated History and Philosophy of Biology, University of **Utrecht**, March 18-20: The Epistemology of Data-Intensive Science: Integrating History, Social Studies and Philosophy of Data Practices.

Invited Lecture, Department of History, University of Wisconsin-**Madison**, USA, March 11: Data Journeys in Biology: Openness and Shadows.

Invited Panelist at Open Data Infrastructures for Innovation - Big Data in the Life Sciences. Biblioteque Solvay, **European Commission**, Brussels, February 4.

Keynote for LERU Conference on Open Data, Chancellor's Hall, Senate House, University College **London**, January 29.

Egenis Seminar, University of **Exeter**, January 11: On the Value and Movements of Research Data.

2015

Invited talk for Alan Turing Workshop "The Ethics of Big Data", **Oxford** Internet Institute, November 30: Locating Accountabilities in Data Science.

Invited panellist for Conference "The Past and Future of Scientific Publishing", Royal Society, **London**, November 27.

Contributed talk in session "Technologies, Data and DNA: Contemporary Histories of Genomics," History of Science Society meeting, **San Francisco**, November 19-22 (with R. Ankeny): Exploring MODs Culture and Communication: A History of Model Organism Databases (MODs) in Genomics Research

Invited Panelist for Workshop "Capitalising on the Potential of UK Biobank for Environmental Change, Health and Sustainability Research," Wellcome Trust, **London**, November 17.

Invited Participant to the WSF Side Event "Scoping the Future: Views and Ideas of Young Scientists to Tackle Global Challenges" and to the **World Science Forum**, Hungarian Academy of Science, Budapest, November 4-6 (nominated by the Global Young Academy).

Invited Seminar, HPS Department, University of **Cambridge**, October 15: On the Value and Movements of Scientific Data.

Contributed Talk, European Philosophy of Science Association, **Düsseldorf**, September 24-26: Distributed Reasoning in Data-Centric Science.

Keynote Lecture, Workshop on Research Data Management organized by the Swiss National Science Foundation, **Berne**, 14 September: The Challenges of Making Data Travel.

Invited Lecture, International Workshop "Studying Knowledge Transfer and its Context", Centre for Advanced Study at the Ludwig-Maximilians-University **Munich**, September 10-11: On the Movements and Value of Scientific Data.

Keynote lecture, 15th Congress of Logic, Methodology and Philosophy of Science, **Helsinki**, August: Repertoires: How to Transform a Project into a Research Community (joint work with Rachel Ankeny, who delivered the paper).

Contributed Talks, International Society for the History, Philosophy and Social Studies of Biology, **Montreal**, July 5-10: How Simple Organisms Grew Into Research Communities (with R. Ankeny) & Data Journeys in Biology.

Contributed Talks, Biennial Meeting of the Society for the Philosophy of Science in Practice, **Aarhus**, Denmark, June 24-26: Data, Models and Data Models; and Data Repertoires (with R. Ankeny).

Contributed Talk at 5th International Conference and Annual General Meeting of the Global Young Academy "Innovation for Sustainable Globalisation", Montebello, **Canada**, May 25-29: Making Open Science Sustainable Across the Globe.

Invited lecture in International Workshop "Just Playing? Toy Models in the Sciences", May 8-9, University of **Munich**: Just a Game? Data Models in Plant Science.

Contributed talk, Annual Conference of UK Network for Integrated HPS on "Evidence", University of **Durham**, April 13-14: Valuing Data as Evidence for Multiple Claims.

Contributed Talk, Society for the Philosophy of Information annual meeting on "Conceptual Challenges of Data", University College **London**, March 30-31: Data Journeys: Openness and Shadows.

Invited lecture at Info-Metrics Institute 2015 Spring Workshop on Philosophy of Information and Information Processing, Pembroke College, **Oxford**, March 27: The Epistemology of Data-Intensive Science.

Invited lecture at International Seminar on Data Science, Indian Statistical Institute, **Bangalore**, March 19: Research Data Sharing: Key Concerns.

Invited lecture at CODATA ISI International Training Workshop on Big Data, Indian Statistical Institute, **Bangalore**, March 18: The Epistemology of Big Data.
<http://drtc1.isibang.ac.in/bdworkshop/index.php>

Invited lecture in series "Contemporary Trends in the Philosophy of Science", Department of Philosophy, University of **Edinburgh**, February 26: When Data Travel: Re-Thinking the Epistemology of Data. Available to watch online: <https://www.youtube.com/watch?v=XYNV1EuHVXk>

Invited lecture in Philbio seminar series, Institute de l'Histoire et Philosophie de la Science, **Paris**, February 12.: What Counts as Scientific Data? Learning from Data Journeys in Biology.

Keynote lecture at Belgian Science and technology Studies Conference, Gent, 10-11 February: When STS Meets Philosophy of Science: Reflections on Context in Scientific Inquiry

Invited seminar at Philosophy Department of the University of **Ghent**, 9 February: What Counts as Scientific Data? A Relational Framework.

Invited seminar at Data Visualisation Workshop, hosted by the Exeter Imaging Network and Big Data Challenges, 28 January: Organising Data for Re-Use: Visualisations in Biological Databases.

2014

Introductory Lecture, ERC International Workshop "What is data-intensive science?", Exeter, December 17-19.

Invited discussant, "Nature in Numbers" symposium, History of Science Society 2014, **Chicago**, November 7.

Contributed paper, Biennial Conference of the Philosophy of Science Association 2014, **Chicago**, November 7: What Counts as Scientific Data? A Relational Framework.

Invited lecture, Conference "Is More Data Always Better? Constraints on Big Data for Biology", Integrative Research Centre, **Field Museum, Chicago**, November 4-5: Big Data for Small Biology? Setting Up Biological Databases to Facilitate Research.

Invited Lecture, Workshop "Beyond the Meme: Articulating Dynamic Structures in Cultural Evolution", University of **Minnesota**, Minnesota Centre for the Philosophy of Science, October 16-19: "The Evolution and Extraction of Data Structures" (virtual participation).

Introductory Keynote, ERC Workshop on Research Data Management and Sharing, September 18-19 (ERC Headquarters, **Brussels**): Data-Intensive Science: A Philosophical Introduction.
<http://erc.europa.eu/media-and-events/events/erc-workshop-research-data-management-and-sharing>

Invited Panel Discussion, "Mediated Worlds: Knowledge, Information and Communication in the Digital Age", Union of the German Academies of Sciences and Humanities, **Berlin**, September 1: The Role of Online Databases in Scientific Research: Opportunities and Dangers.

Invited lecture in the series "PhilTech – Philosophy & Technology Research Seminars", Oxford Internet Institute and Department of Philosophy, University of **Oxford**, May 1: Researching Life in the Digital Age: A Philosophical Analysis of Data-Intensive Biology.

Invited seminar at the e-Humanities Group of the **Royal Netherlands Academy of Arts and Sciences**, Amsterdam, April 10: What Difference Does Quantity Make? On the Epistemology of Big Data Biology.

Keynote lecture at symposium 'Data at Work', **German Network for the Philosophy of Life Science**, Muenster, April 3-4: What Counts as Scientific Data? A Relational Framework.

Invited colloquium at Max Planck Institute for the History of Science, **Berlin**, February 26: Data Journeys in the Life Sciences.

Keynote Lecture at Swiss STS meeting "Collecting, organising and trading big data", Lausanne, Switzerland, February 20-22: What Difference Does Quantity Make? On the Epistemology of Big Data Biology.

Contributed paper (with Nadine Levin) at Swiss STS meeting "Collecting, organising and trading big data", **Lausanne**, Switzerland, February 20-22: Questioning the Openness of Big Data.

Invited seminar, Department of Philosophy, University of **Munich**, January 30: Data Integration, Model Organisms and Translational Research

2013

Lecture at International Workshop 'The Value of Open Science', December 12-13, **Exeter**: 'Valuing Open Science: Meanings, Incentives, Challenges'

Invited contribution to Science, Technology and Culture Workshop, December 4, **Exeter**: 'Large Data Science'

Invited lecture at **Exeter Cafe Scientifique**, December 2: 'Data, data everywhere: Is this a good thing?' (with R. Ankeny) Contributed talk to Session 'Sharing Data in the Digital Age', History of Science Society, **Boston**, November 22-24.

Invited seminar at University of **Roehampton**, London: "Using non-human organisms as scientific models"

Invited Final Commentary at International Conference on Big Data, Max Planck Institute for the History of Science, **Berlin**, October 31-November 2.

Invited lecture at the Centre for STM, **Manchester** University, October 22: "Data integration and translational research: what counts as knowledge in plant science?"

Invited lecture at 'Data Matters' workshop, St Anne's College, **Oxford**, October 20: "Why the Current Insistence on Open Access to Scientific Data?"

Invited final commentary to 'Systems Biology' symposium at 24th International Congress for the History of Science, Technology and Medicine, **Manchester**, July 23-27.

Contributed talk to 'Data at Work', 24th International Congress for the History of Science, Technology and Medicine, **Manchester**, July 23-27: 'Putting data to work in plant science, 1990-2012'.

(with R. Ankeny) Contributed talk to thematic session 'Towards Epistemologies of Biological Practice' at Biannual Meeting of the International Society for the History, Philosophy and Social Studies of Biology, **Montpellier**, July 7-10: 'The ethos of organism-based communities'

Contributed talk to Annual Meeting of the British Society for the Philosophy of Science, Exeter, July 4-6: 'What Counts as the Context of Scientific Inquiry?'

Contributed talk to Biannual Meeting of the Society for the Philosophy of Science in Practice, University of **Toronto**, June 25-29: 'What counts as knowledge in plant science? Philosophical challenges from green translational research'.

Invited lecture at workshop 'Quality and accuracy of genetic data and knowledge produced by next-generation sequencing (NGS)', **Institute Curie, Paris**, June 6-7: Understanding the science behind big-data production: epistemological assumptions.

Invited Lecture at workshop 'Bioproperty: Animal Exchanges', **Oxford University**, 23-24 May.

Invited talk at Annual Meeting of the Global Young Academy, **Leopoldina**, Halle-Saale (Germany), 15-18 May: The Impact of Open Science on Biological Research.

Keynote Lecture at Conference 'Crossing the Divides: Exploring Boundaries and Overlaps Between Sociology and Philosophy of Science and Bioethics', **Brunel** University, London, 13-15 May: What counts as the context of scientific inquiry?

Invited Talk at EGN Conference 'Genomes and Society: Global Challenges Around Life Sciences', **Westminster**, London, 30 April-1 May: Open Science, Open Data and Life in the Digital Age.

Invited Lecture at Annual Meeting of the Exeter Initiative for Statistics and Its Applications (EXISTA), University of Exeter, 25 April: 'A philosophical perspective on data-intensive biology'.

Invited commentary at Knowledge/Value 4: Property and Intellectual Property, **UC Davies**, April 19-20: 'The materiality and tangibility of information and data authorship'

Invited discussion of my paper 'Classificatory Theory in Biology' at the Philosophy of Biology Munch, **California Academy of Sciences**, 17 April.

Invited talk as RCUK delegate at Shared Horizons: Data, Biomedicine, and the Digital Humanities Symposium (organised by Maryland Institute for Technology in the Humanities, the National Endowment for the Humanities, the National Library of Medicine at the National Institutes of Health, and the Research Councils UK). University of Maryland, **Washington**, April 10-12.

Keynote Lecture at the 5th Workshop in the Philosophy of Information, University of **Hertfordshire**, 26-27 March: 'What Counts as Good Data in Biology?'.

Invited Lecture at British Society for the Philosophy of Science ordinary meeting, **London School of Economics**, March 11: Integrating Data to Acquire New Knowledge.

Invited Lecture at STS Seminar, University of **Edinburgh**, 18 February: Life in the Digital Age: The Impact of Open Science and Digital Technologies on Biological Research.

2012

(with Ankeny) Invited talk at International Conference 'Modeling Complexity', University of Exeter, 13-14 December: Digital organisms.

(with Ankeny, Nelson and Ramsden) Contributed Talk at HSS meeting in **San Diego**, November: 'Making Organisms Model Humans: Situated Models in Alcohol Research'.

Invited lecture at STS Seminar, **University College London**, November 12: 'Life in the Digital Age: The Impact of Open Science and Digital Technologies on Biological Research'

Contributed talk at EASST/4S meeting in **Copenhagen**, October: 'Design through displacement: Understanding life in the digital age'.

Invited final commentary at International Workshop on Modelling Animals, University of **Manchester**, September 21-22: 'Epistemology of animal models'.

Invited lecture at European Advanced Seminar in the Philosophy of Biology, theme 'Models in vivo, in vitro, in silico', Brocher Foundation, **Geneva**, September 10-14: 'Model organisms in vivo and in silico'

Invited lecture at International Conference 'Information, Databases and Archives', **Beijing**, September 7-9: Data Integration and Knowledge in Plant Science

Invited lecture at **Royal Society/International Council for Science** Conference 'Revaluing Science in the Digital Age', September 2-4: 'Shifting Scientific Norms in the Digital Age: Insights from the History, Philosophy and Social Studies of Science'

Contributed Talk at British Society for the Philosophy of Science, **Stirling**, July 5-6: 'Classificatory Theory in Biology'

Invited Lecture at KLI Focal Symposium 'Data-Intensive Science: Why Google Won't Replace Science', University of **Vienna**, June 14-15: 'Promise and Dangers of Data-Intensive Science'

Talk at 4th Biennial ECPR Standing Group for Regulatory Governance Conference: New Perspectives on Learning, Regulation and Governance, Exeter 26 June: 'How Data-Intensive Science Challenges the Regulation of Credit Attribution'

Contributed Talk at Annual Meeting of the Global Young Academy 'Sustainability: Lessons on the Road from Rio to Rio+20', **Johannesburg**, May 20-23: 'Using digital infrastructures to facilitate governance at the national and international levels'

Invited lecture at International Conference on Integration in Biomedicine, University of **Sydney**, May 3-4: 'Data integration and community data sharing: Three types of integrative efforts'

Invited seminar at the Department of History and Philosophy of Science, University of **Sydney**, April 30: 'Understanding life in the digital age: Towards a philosophy of data-intensive biology'

2011

Invited lecture at the Centre for the Philosophy of Science, University of Minnesota, **Minneapolis**, December: Towards an Epistemology of e-Biology.

Invited lecture at Max Planck Institute (**Berlin**, November 2011): Respect for Epistemic Diversity: A Guiding Principle for Biological Cyberinfrastructures.

Invited commentaries on Hans-Joerg Rheinberger and Gail Davies at 'Knowledge/Value' Conference at University of **Chicago** (November 2011).

Invited panellist at public debate 'Frankenstein and the limits of science', ESCR Festival of Social Science, Exeter Phoenix.

Invited lecture at Philosophy Department in **Bristol**, 14 October 2011: The epistemic impact of data-intensive methods in biology.

Invited as 'group leader' to International Conference 'Synthesis: Interdisciplinary Interconnections in Synthetic Biology', ZiF, University of **Bielefeld** (30 September-1 October 2011).

Invited lecture at International Workshop on *The Meaning of Theory in Biology*, Konrad Lorenz Institute, **Altenberg**, Austria, July 2011: Classificatory Theory in Experimental Biology.

Talk at International Conference 'Making Sense of Large Datasets' (Exeter, June 20-21).

Invited commentary on Mary Morgan at Knowledge/Value Conference at the University of **Chicago** (3-5 June 2011): 'Chasing Phenomena'.

Talk at Integrated HPS meeting at University of **Cambridge** (April 2011): 'When HPS Critiques Science: An Achievement or a Problem?'

Invited lecture at Social Studies of Medicine Seminar, McGill University, **Montreal**, 23 March 2011: 'Towards an Epistemology of e-Biology'.

Invited lecture at Making It Big Workshop, Exeter (17 March 2011): 'Is e-science necessarily big science?'

2010

Invited seminar at the Centre for the History of Science at the University of **Bologna** (December 17 2010): 'Understanding Data in the Digital Age'.

Invited talk at European Science Foundation Conference 'Points of Contact between Philosophy of Biology and Philosophy of Physics' (**London School of Economics**, 13-15 December 2010): 'The Experimental Context in Silico'.

Invited panellist at ESRC Festival Research Methods, **Oxford**, July 7 2010: 'The Ethics of e-Science Research'.

Invited lecture at International Workshop on *Understanding and the Aims of Science*, Lorentz Centre, University of **Leiden**, June 2010: 'Experimental Biology *In Silico*'.

Invited Lecture at *2010 Gordon Cain Conference*, titled 'Personalized medicine here and now: Empirical studies of post-genomic medicine' (**Philadelphia**, Chemical Heritage Foundation, 5-6 May 2010): 'When Humans Are the Exception: Cyberinfrastructure Across Species'.

Talk at Egenis International Workshop *Data-Driven Research in the Biological and Biomedical Sciences*, Exeter (15-16 April 2010): 'The Role of Theory in Data-Driven Research: The Case of Bio-Ontologies'

(with Rachel Ankeny) Talk at Egenis International Workshop *Data-Driven Research in the Biological and Biomedical Sciences*, Exeter (15-16 April 2010): 'Re-Thinking Organisms'.

Public lecture at Science in the Docks (18 March 2010): 'Model Organisms'.

Talk at Egenis Workshop *Governance Issues in Data Sharing*, Exeter (2 March 2010): 'Scientific Governance and Cross-Species Databases'.

Invited lecture at Universidad Complutense, **Madrid** (4 February 2010): 'Bioinformatics and biology in the 21st century'.

Peer-Reviewed Contribution to the *Biannual Meeting of the European Philosophy of Science Association* (**Amsterdam**, 23 October 2010): 'On the Role of Theory in Data-Driven Research: The Case of Bio-Ontologies'.

2009

Peer-reviewed Contribution to Workshop 'Web Semantics in Action: Web 3.0 in e-Science', within *5th IEEE International Conference on e-Science*, **Oxford** (11 December 2009): 'Documenting the Emergence of the Gene Ontology: An HPSS Approach'.

Invited Lecture at the *History and Philosophy of Science Seminar*, **Cambridge** (19 November 2009): 'Dynamic (Bio)Ontologies for Good Epistemology'.

Talk at *EGN conference* (8 October 2009, **Cardiff**): 'Issue-Based Scientific Governance'.

Invited Lecture at the *History of Genetics Day*: 'From Humble Weed to Botanical *Drosophila*' (John Innes Centre, **Norwich**, 9 September 2009).

Invited Lecture at the Konrad Lorenz Institute/Institute for Theoretical Biology (**Vienna**, 8 June 2009): 'Bio-Ontologies as Theories'.

Biannual Meeting of the Society for the Philosophy of Science in Practice (20 June 2009, **Minneapolis**, with Rachel Ankeny): 'Re-Using Data, Re-Thinking Organisms: The Epistemic Impact of Databases on Model Organism Biology'. Presented as part of a symposium I organised, titled *The Epistemic Status of Model Organisms*.

Talk at *Theory and Practice*, Fourth Joint Workshop on Integrated History and Philosophy of Science (1 June 2009, **Durham**): 'Researching Contemporary Biology'.

Invited Talk at CRASSH Conference *Policy, groups and populations in a genomic era: philosophical and social scientific perspectives* (**Cambridge**, 17-18 April 2009): 'When Humans are the Exception: Cross-Species Data Mining'.

Invited Talk at *Objects and Methods of Reproduction in 20ies Century Life Sciences. 1st Reproduction workshop MPI Berlin – EGENIS* (3 April 2009, **Exeter**): 'Standardisation of organisms through 'digitalisation' for the purposes of reproduction.

Public Seminar at Egenis, **Exeter** (3 February 2009): 'Issue-Based Scientific Governance'

2008

Contributed Paper at the *Philosophy of Science Association Meeting*, **Pittsburgh** (6-9 November 2008): 'On the Locality of Data and Claims About Phenomena'.

Invited Paper to Workshop *Writing Genomics: Historiographical challenges for new historical developments: 'The Emergence of Data Dissemination Policies: Re-Thinking Regulation in Genomics'*. Max Plank Institute for the History of Science, **Berlin** (28-29 October 2008).

European Graduate Meeting in Philosophy of Biology: 'Philosophical Issues in Bioinformatics', Gorino Sullam, Italy (4 September 2008).

Joint meeting 4S/EAAS, contributed paper within the session '*Governing and Institutionalizing Genomics: An Interdisciplinary and Interorganizational Perspective. I. Impact on Organizations, Healthcare and Work*': 'Governing Data Sharing: Bio-Ontologies and the Creation of Labelling Centres', **Rotterdam** (23 August 2008).

Joint meeting of the Three History of Science Societies, contributed paper within the session '*Collaboration and Interdisciplinarity in the Life Sciences*': 'A Happy Marriage? The Introduction of Bioinformatics to Model Organism Biology', **Oxford**, UK (6 July 2008).

Invited Lecture at BBSRC Workshop *Data Sharing in the BioMedical Sciences: Data Sharing in Model Organism Research*, Institute for E-Science, **Edinburgh**, UK (26 June 2008).

Invited Lecture at SEMM (European School of Molecular Medicine): '*Assessing the Impact of Bio-Ontologies on Biological Research*', with follow-up seminar for doctoral students in the philosophy of biology. **Milan**, Italy (9 June 2008).

Facts Workshop 'Making Small Facts Travel': '*Making Small Facts Travel: Databases in Model Organism Biology*' **London**, UK (27 March 2008).

Public Seminar in the series 'How Well Do Facts Travel', **London School of Economics**: 'Labels, Vehicles and Packages: Making Facts Travel in Model Organism Biology' (6 February 2008).

2007

Invited Lecture at **British Academy** Conference 'Enquiry, Evidence and Facts': 'Circulating Small Facts About Organisms: Biological Databases.' London, UK (13-14 December 2007).

Invited Lecture at Egenis Seminar: 'Bio-Ontologies: A New Type of Theory to Make Facts Travel'. University of **Exeter**, UK (4 December 2007).

Invited Lecture at Workshop 'Medical Evidence': 'Circulating Evidence About Organisms' (5 October 2007, Universidad Complutense, **Madrid**, Spain).

International Conference of the Society for the Philosophy of Science in Practice: 'Evidence, Facts and the Database Revolution in Biology' in special thematic session 'How Do Practices Move Knowledge Around?' (26 August 2007, University of **Twente**, NL).

Biannual Meeting of the International Society for the History, Philosophy and Social Studies of Biology: 'Bio-Ontologies: A New Means of Travel for Biological Facts' in special thematic session 'Bio-Ontologies: A New Type of Theory in Biology?' (25 July 2007, **Exeter**, UK).

Invited lecture at Expert Workshop 'The Commodification of Academic Research': 'The Commodification of Knowledge Exchange' (21 June 2007, **Amsterdam**).

Keynote Address at Biannual Congress of the Dutch Society for the Philosophy of Science [Nederlandse Vereniging Wetenschapsfilosofie]: 'Can We Have Integration Without Theoretical Unification?' (20 May 2007, Leusden, NL).

Public Defence of the PhD Dissertation: Weed for Thought. Using Arabidopsis thaliana to Understand Plant Biology (10 April 2007, Amsterdam).

'The Epistemic Status of Model Organisms: A Raging Debate in the Philosophy of Biology?' (10 April 2007, Amsterdam).

2006

Invited Lecture at the Department of Philosophy of the Technical University of **Delft** (20 November 2006): *'Understanding and Integration in the Arabidopsis Research Community'*.

4S Meeting 2006, **Vancouver** (November 2006): *'Understanding Facts Across Scientific Communities'* in special thematic session 'Models as Vehicles for Travelling Facts'.

International Conference 'Science and Democracy', **Ghent** (28-30 September 2006): *'Scientific Understanding: A Matter of Which Expertise?'* in special thematic session 'Scientific Facts: Whose Expertise?'.

Invited lecture, **Amsterdam** (23 May 2006): *'Modeling to Understand: the Case of Model Organisms'*. Symposium 'Modeling and Experimentation in Biology', Vrije Universiteit.

2005

Invited Lecture at Expert Workshop 'A New Form of Experiment? Exploring the Performative Potential of Models and Computer Simulations', **Harvey Mudd**, California (17-19 October 2005): *'Abstracting to Model, Handling to Understand'*.

International Conference 'Philosophical Perspectives on Scientific Understanding', Vrije Universiteit **Amsterdam** (25-27 August 2005): *'Committed to Understand: on Models and Skills in Plant Biology'*

(with Hasok Chang) Symposium Paper 'Models and Scientific Reasoning', University of **Amsterdam** (24 August 2005): *'Intelligibility and the Unified Theory of Radiation'*.

International Society of the History, Philosophy and Social Studies of Biology, **Guelph** (13-17 July, 2005): *'Performing Abstraction: two ways to model Arabidopsis thaliana'*.

Research Colloquium Faculty of Philosophy, Vrije Universiteit **Amsterdam** (13 May 2005): *'From Representation to Understanding... And Back?'*

2004

Invited Lecture at Reunion Internacional sobre Historia y Filosofia de la Biologia, Instituto de Investigaciones Filosoficas, UNAM, **Mexico City** (17 November 2004): *'What does the materiality of a model have to do with its intelligibility? The Case of Arabidopsis thaliana'*.

Invited Lecture at Postgraduate Seminar of the Postgraduate Programme in Philosophy of Science, Instituto de Investigaciones Filosoficas, UNAM, **Mexico City** (12 November 2004): *'Where Critical Contextual Empiricism is Not Enough: Understanding within the Arabidopsis Model Community'*.

4S/EASST Meeting 2004, **Paris** (25-28 August, 2004) - Session Panel 'Assessing Interdisciplinary Methodology': *'Disciplined Publishing vs. Interdisciplinary Research? Peer Review in the Graduate Journal of Social Science'*.

VISU School, **Vienna** (26 July 2004): *'The Collective Quest for Epistemic Objectivity: Communicative Understanding in Biology'*.

Brown Bag Invited Seminar, Konrad Lorenz Institute, **Vienna** (7 July 2004): *'Arabidopsis thaliana as a material and abstract model'*.

International Conference 'Knowledge and Imagination', Vrije Universiteit **Amsterdam** (23-25 June, 2004): *'Scientific Imagination in Practice: Modelling the Material'*.

WTMC Workshop, **Ravenstein** (26-28 May, 2004): *'Understanding an Organism in Theory and Practice: Investigations on the Epistemology and Politics of a Model Organism Community'*.

Third Flanders-Netherlands Congress for Philosophy of Science, **Leusden** (14-16 May, 2004): *'Model Organisms as Biological Models – Where the Theoretical Meets the Material'*.

C-SAP Conference 'Looking Back, Taking Stock: Reflecting on five years of learning and teaching', **Birmingham** (18-19 March, 2004): *'The Graduate Journal of Social Science: Strategies, Plans, Projects'*.

GDPS Lunchtime Practitioner's Lecture, SOAS, **London** (March 3rd, 2004): *'European Social Forum and other activism in Europe'*.

2003

Opening conference Faculty of Philosophy Vrije Universiteit **Amsterdam** (September 7th, 2003): '*Can truth be a temptation? The Ethics of Experimentation: Research on Human Subjects in Manchuria, 1932-1945.*'

2th International Congress of Logic, Methodology and Philosophy of Science, **Oviedo** (7-13 August 2003): '*Understanding the Usefulness of Biological Models.*'

International Society for the History, Philosophy and Social Studies of Biology Meeting, **Vienna** (16-20 July 2003): '*Understanding the Usefulness of Model Organisms.*'

2002

Expert Workshop 'Measurement in Economics and the Natural Sciences', Tinbergen Institute, **Amsterdam** (13th of May 2002): '*Understanding Infrared Metaphysics.*'

Media Appearances

- I regularly tweet through @sabinaleonelli (>5300 followers) and @DataScienceFeed (>1000 followers)
- Video of Symposium "Plant Data Semantics and Food Security" that we organised at FAIR Convergence Conference, November 30 2020: <https://conference.codata.org/FAIRconvergence2020/sessions/187/>
- Video of talk and discussion at **STS Italia Forum** "Pandemia e Interdisciplinarietà", La Sapienza, Roma, 20 November: "La scienza dei dati di fronte alla pandemia: sfide e priorità"
<http://www.stsitalia.org/STS%20Italia%20-%20Webinar%20'La%20pandemia%20sfida%20i%20confini%20disciplinari',%2020-11-20.mp4>
- Video of Book Launch of "Model Organisms", November 23 2020:
<https://universityofadelaide.app.box.com/s/58wvnliowzqmk60x0w1d4f1a2pyyb77>
- Video of my interventions at Phaidracon 2020, The Vienna Sessions, November 19-20:
 - Roundtable 1: "Scrutiny and Repeatability – The Danger of Post-Truth Academia"
 - Roundtable 2: "The Role of Data in Accessibility"
- Video of Falling Walls Circle Table "The Understanding of the Scientific Method in the 21st Century", organised by the European Research Council for the **World Science Forum**, November 5:
<https://www.youtube.com/watch?v=IEBaknKY6do>
- Interviewee within the feature-length documentary "The Age of Artificial Intelligence", released November 2020 on YouTube: <https://www.youtube.com/watch?v=BeUjJPULOCY>
- Video of my intervention in the Digital Ethics Forum 2020, October 2 (on responsible handling of personal health data) <https://www.youtube.com/watch?v=D60ZS-p0Iq&feature=youtu.be>
- EU Article summarising key results of DATA_SCIENCE project, available in 6 languages:
<https://cordis.europa.eu/article/id/421505-shedding-new-light-on-role-of-data-science-big-data-and-open-data-in-research>
- Video of keynote lecture "Intelligent Data Linkage and Distributed Semantics for (Big) Data Interpretation" at Advances in Data Science Conference, 23/06/2020, Manchester:
https://www.youtube.com/watch?time_continue=5&v=2qYkdT12etM&feature=emb_logo
- Interview for Euroscientist (Technoscience Podcast) on Open Science, 18/06/2020 (interview actually performed February 2020): <https://www.youtube.com/watch?v=DQGDbyFYUHI#action=share>
- Interviewed for article in Italian national newspaper Sole 24 Ore: Luca De Biase "Dalla sostenibilità al lavoro, l'eredità della clausura digitale", 12/06/20, p.19.
- Webinar on **COVID data modelling** for "History of Science on Call" project of the Max Planck Institute for the History of Science, 20 March 2020: <https://www.mpiwg-berlin.mpg.de/video/history-science-call-sabina-leonelli> (English); <https://www.mpiwg-berlin.mpg.de/video/history-science-call-sabina-leonelli-italian> (Italian)
- Interview for EnergyWay on the implication of digital transformation for industry (in Italian), released February 2020: <https://www.youtube.com/watch?v=yg-P5nIxzCA&feature=youtu.be>
- Cited in article for Brazilian national, December 2019:
<https://www.uol.com.br/tilt/noticias/redacao/2019/12/28/afogados-em-dados-como-nossa-historia-sera-resgatada-no-futuro.htm>
- Interviews at CIDACS (Salvador, Brazil) over Big Data society, published 14 Jan 2020:
<https://www.youtube.com/watch?v=n2fwq74XDbA>
<https://www.youtube.com/watch?v=n2fwq74XDbA&t=5s>

- Interviewed by The Economist for Babbage Podcast "The End of the Scientific Method?", 27 November 2019: <https://www.economist.com/podcasts/2019/11/27/the-end-of-the-scientific-method>
- Interview featured in STOA "Europe leads the way in the transition to open access", 23 October 2019: sciencemediahub.eu
- Lectio Magistralis at launch of the Manifesto of Energyway, Modena, 13 September 2019: <https://razionalitasensibile.it/it/event> . See also media reactions:
 - <https://www.modenatoday.it/attualita/manifesto-razionalita-sensibile-modena-2019.html>
 - <https://www.google.co.uk/amp/s/it.finance.yahoo.com/amhtml/notizie/ai-modena-domani-presenzione-manifesto-razionalit%25C3%25A0-sensibile-142224439.html>
 - <https://www.i-talicom.it/tech/innovazione-tecnologica/energy-way-presenta-il-manifesto-della-razionalita-sensibile/>
- Public video of talk on Open and Big Data in Research, Ecole Normale Supérieure, May 27 2019: <https://www.ohnk.net/open-data-quesaco-2019>
- Youtube video of talk on "Actionable Data in Oncology", University of Bordeaux, May 24 2019: <https://www.philinbiomed.org/event/sabina-leonelli/>
- Interview for *Nature* feature article "Data Sharing and How it Can Benefit Your Scientific Career" by Gabriel Popkin, published 13 May 2019: <https://www.nature.com/articles/d41586-019-01506-x>
- Three-Minute Interview for the European Philosophy of Science Association newsletter, March 2019: <http://www.philsci.eu/Newsletter/2019/Interview>
- ORION Open Science Podcast Interview with Sabina Leonelli: "Plan S: Solution or Short-Sightedness?" (released February 2019) <https://orionopenscience.podbean.com/e/plan-s-solution-or-short-sightedness/>
- Interview for Laboratory Equipment (online resource), February 2019: <https://www.laboratoryequipment.com/article/2019/02/labs-develop-competitive-advantage-embracing-iot-integration>
- Technoculture Podcast #13: "Sabina Leonelli: The Open Science Movement" <http://technoculture-podcast.com/index.php#sabina> (released December 2018)
- YouTube video of my Keynote lecture for French Open Science Conference (launch of the French Open Science National Initiative), December 2018: TBA
- Vimeo video of the PSA Public Forum 2018 on Artificial Intelligence, where I was a plenary speaker: <https://vimeo.com/301399662> (my lecture); <https://vimeo.com/301400052> (discussion)
- YouTube video of my Lakatos Award lecture, October 2018: "Understanding Science from the Data Up" <https://www.youtube.com/watch?v=POq6SHv11ho>
- YouTube video of my interview at DataSante project, Nantes Philosophy of Science Congress, July 2018: Qu'est-ce qu'une donnée? <https://www.youtube.com/watch?v=3JxWIPGKVsw>
- YouTube video of my keynote to PhenoHarmonIs2018 in Montpellier, May 2018: <https://www.youtube.com/watch?v=7FwRC3Eos-I&list=PLpRdrLJLt1iC0vnMJ-Ty6WyAOfZVo2b4&index=15>
- Interview featured in Jop de Vrieze, What We Can (and Can't) Learn from Replicating Scientific Experiments, *Undark Magazine*, 6 December 2018 <https://undark.org/2018/12/06/what-we-can-and-cannot-learn-from-replication/?platform=hootsuite>
- Press covering the publication of my book with Meltemi in 2018:
 - Bianchini, E & Maturi, M. "Big Data, le trappole per la ricerca: dalla fretta del profitto al potere di Google" *Il Fatto Quotidiano*, 18 October 2018, <https://www.ilfattoquotidiano.it/2018/10/18/big-data-le-trappole-per-la-ricerca-dalla-fretta-del-profitto-al-potere-di-google/4692481/>
 - "Il Libro", *Repubblica*, 24 Novembre 2018
 - Luigi Ripamonti, "Cosa Dicono Davvero I Big Data", *Corriere della Sera*, 25 Novembre 2018: <https://www.pressreader.com/italy/corriere-della-sera/20181125/282686163276834>
 - Mauro Capocci, "Analisi Critica del Datocentrismo", *Le Scienze*, Dicembre 2018 (p.95): <http://www.meltemieditore.it/wp-content/uploads/capocci-le-scienze-big-data-leonelli.pdf>
 - Videoreview by Alberto Trobia (30'), YouTube series "Panopticon": <https://www.youtube.com/watch?v=IEJDNhaCFEw>
 - Lovesini, L. "Approcci Sistemici alla Gestione dell'Informazione", *L'Indice dei Libri del Mese*, Numero 6, 3 Giugno 2019, pp.12-14. <https://www.lindiceonline.com/l-indice/sommario/giugno-2019/>

- Feature article "La Modenese Sabina Leonelli Si Aggiudica il Premio Lakatos "Oscar" di Filosofia della Scienza", La Gazzetta di Modena, 22 November 2018: <https://gazzettadimodena.gelocal.it/modena/cronaca/2018/11/22/news/alla-modenese-leonelli-il-prestigioso-premio-filosofia-della-scienza-1.17485506>
- Video interview for the Blog of University of Padova, articolo "Immersi nei big data, risorsa o rischio per la società?" di Francesco Suman: <https://ilbolive.unipd.it/it/news/big-data-risorsa-rischio-societa-agcom>
- Interview in *SCI PHI Podcast* (The Philosophy of Science Podcast, episode 42), 17 June 2018: <https://t.co/01smPynj72>
- Interview with featured in article on "Bringing the Internet of Things into the Lab", *The Scientist*, 1 June 2018: <https://www.the-scientist.com/?articles.view/articleNo/54670/title/Bringing-the-Internet-of-Things-into-the-Lab/>
- Interview with Silvia Lazzari featured in article on "DNA: I Tuoi Dati Sono al Sicuro?" (DNA: Are Your Data Safe?), *Corriere della Sera* (main national newspaper), 27 April 2018:
- YouTube videos of my talks at "New Perspectives on Open Science" workshop, University of **Oxford**, March 20 2018: <https://www.youtube.com/watch?v=No4BGXOw4kQ&list=PLvvHQgwqXT54zFkErGahmjZ9rJjYz8fFv&index=4> ; <https://www.youtube.com/watch?v=lu3GlpXUhes>
- Lead Interview in *The Reasoner* (by Virginia Ghiara), issue 3, volume 12, March 2018.
- Interview for *Cartaditalia* issue 3, November 2017, as part of a series featuring leading Italian researchers under 40: http://iicbruxelles.esteri.it/iic_bruelles/resource/doc/2017/11/cartaditalia_n3-rid.pdf
- My 2017 report on Big Data in Biomedicine was cited in *Research Europe*, 22 February 2018, p.12: "Keeping the Lights On" (by Craig Nicholson)
- YouTube video of my public lecture for the University of Cambridge, January 2018: <https://www.youtube.com/watch?v=mx9pIDbwJ5s&t=4s>
- YouTube video of my talk for the Annual Lecture Series of the Pittsburgh Centre for the Philosophy of Science, November 2017: <https://www.youtube.com/watch?v=qc1aQep4DE8>
- Feature article concerning my research and career in celebration of Talented Young Italians Award 2017: "Ricerca e Big Data: La Modenese Sabina Leonelli Svela I Segreti", *Gazzetta di Modena*, 10 January 2018: http://m.gazzettadimodena.gelocal.it/modena/cronaca/2018/01/12/news/ricerca-e-big-data-la-modenese-sabina-leonelli-svela-i-segreti-1.16342083?refresh_ce
- YouTube video of my plenary session at World Science Forum, November 2017, Session "The Opportunities and Challenges of Digital Transformation": <https://www.youtube.com/watch?v=rIzPGlyZJqk>
- Article by Craig Nicholson on my report for the EU MLE Exercise, 8 December 2017: "Open Science Movement Needs Supervision, Report Warns" *Research Professional*. www.researchresearch.com/news/article/?articleId=1371863
- Article by Silvia Lazzaris for *Corriere della Sera* (main Italian national newspaper) interviewing me on ethics of health data dissemination, 1 December 2017: "I Dati? Sono Miei".
- Article by Craig Nicholson on my report for the Swiss Research Council, 3 November 2017: "Lack of Data Hampers Biomedical Research, Report Warns", *Research Professional*.
- Interview for *Ozy Magazine*, special feature on "Doctors Swear To Do No Harm: Why Don't Data Scientists?", 13 October 2017: <http://www.ozy.com/immodest-proposal/doctors-swear-to-do-no-harm-why-dont-data-scientists/81226>
- YouTube Video of Keynote lecture on "Rewards and Incentives for Open Access Publishing: Why and How Open Science?" (given in occasion of Swedish conference on Open Access, October 16 2017) https://www.youtube.com/watch?v=q4_UBAAtms0k&index=2&list=PLZVkeEICvA5-EJG7Hok3L9dDq_haIq-d63
- Podcast interview on my book *Data-Centric Biology*, New Books Network, published online June 2017.
- Press coverage and interviews concerning my intervention in European debate over Open Access Publishing as Chair of the Open Science Publishing Working Group of the Open Science Policy Platform (2017):
 - *Nature*, 29 March 2017: <http://www.nature.com/news/gates-foundation-announces-open-access-publishing-venture-1.21700>
 - *Science*, 29 March 2017: www.sciencemag.org/news/2017/03/european-commission-considering-leap-open-access-publishing

- *Research Europe*, Craig Nicholson: "Commission Mulls Over Open Access Platform", 6 April 2017: www.datastudies.eu
- Interview with *Wise.it*, published online 10 January 2017: "Sabina Leonelli: Here's the impact of big data on medicine" <http://wisesociety.it/incontri/sabina-leonelli-big-data-medicina/>
- Press coverage for Digital Science Report "The State of Open Data":
 - *Times Higher Education*, 25 October 2016: "Half of Academics Confused About Open Data" <https://www.timeshighereducation.com/news/half-academics-confused-about-open-data>
 - *Yahoo Finance*, 25 October 2016: "Report Provides New Insights into the State of Open Data" <http://finance.yahoo.com/news/report-provides-insights-global-state-070000402.html>
 - *Research Information*, 27 November 2016: "Dare to Share?" <https://www.researchinformation.info/feature/dare-share>
 - BioMedCentral Blog, 26 October 2016: <https://blogs.biomedcentral.com/bmcblog/2016/10/25/state-open-data-report-provides-new-insights-global-state-open-data-stateofopendata/>
 - Digital Science Webinar "The State of Open Data", December 14, <https://www.digital-science.com/blog/events/digital-science-webinar-state-open-data-dswebinar/> (450 registered listeners)
- Italian National Press around my intervention at the 12th World Conference "Future of Science: Digital Revolution" on September 22-24, Venice:
 - *Corriere della Sera*, September 2016, "No All'Individualita': L'Innovazione Deve Essere Condivisa": <http://sociale.corriere.it/no-allindividualita-linnovazione-deve-essere-condivisa/>
 - *Repubblica*, 23 September 2016, "Cosi' I big data possono aiutare la medicina" : http://www.repubblica.it/salute/ricerca/2016/09/23/news/cosi_i_big_data_possono_aiutare_la_medicina-148393701/
 - *La Stampa*, September 21, 2016.
 - Interview on *Fondazione Veronesi* site "Qual'e' l'impatto dell'innovazione digitale sulla medicina?": <http://www.fondazioneveronesi.it/index.php?CID=12493> Youtube link: <https://youtu.be/kRikNe94edM>
 - *Wired.it*: <http://www.wired.it/scienza/biotech/2016/09/27/futuro-della-scienza-big-data/>
 - *Corriere della Sera* Special Edition, 14 October 2016: <http://www.corriere.it/extra-per-voi/2016/10/06/cioccolata-premi-nobel-ovvero-come-big-data-possono-aiutare-medicina-21cd5f92-8bd3-11e6-8000-f6407e3c703c.shtml>
- Podcast "Sabina Leonelli on Whether Big Data Will Revolutionise Science", published online in September 2016: <https://algocracy.wordpress.com/2016/09/10/episode-11-sabina-leonelli-on-whether-big-data-will-revolutionise-science/>
- Interview for LSE Impact Blog, Data Science series. Published online 19 January 2015: <http://blogs.lse.ac.uk/impactofsocialsciences/2015/01/19/philosophy-of-data-science-series-sabina-leonelli/#author>
- Interview for *Il Fatto Quotidiano* (Italian national newspaper). Published 28 April 2014: <http://www.ilfattoquotidiano.it/2014/04/28/filosofa-della-scienza-a-exeter-in-uk-criteri-di-valutazione-chiari-per-fare-carriera/965552/>
- *Mendelspod* Podcast Interview "Myths of Big Data". Published on 27 March 2014: <http://mendelspod.com/podcast/myths-big-data-sabina-leonelli-philosopher-information>
- Lead Interview for *The Reasoner* (by Federica Russo), September 2013 issue: [http://www.kent.ac.uk/secl/philosophy/jw/TheReasoner/vol7/TheReasoner-7\(9\).pdf](http://www.kent.ac.uk/secl/philosophy/jw/TheReasoner/vol7/TheReasoner-7(9).pdf)
- SAGE Podcast "Why the Current Insistence on Open Access to Scientific Data?". Recorded on 24/09/2013: <http://bst.sagepub.com/content/early/2013/08/19/0270467613496768/suppl/DC1>
- *Phonic FM*: Main guest speaker on Open Data, March 2012.
- Interview with *BBC Radio Devon* on the myth of Frankenstein and synthetic biology, 3 November 2011.

Posters

- 'Towards an Epistemology of Data-Intensive Science' PSA 2017, Atlanta, November 2-6 2016.
- 'Data Integration and Translational Research in Plant Science' GARNET 2014, University of Bristol, September 9-10 2014.

- 'Developing the History and Philosophy of Plant Science' UK Plant Science Federation meeting, John Innes Centre, Norwich, April 18-19 2012.
- 'Data-intensive research in the biological and the biomedical sciences' at Launch Event of the Exeter Initiative for Statistics and Its Applications (November 28 2011, Exeter, UK).
- 'What Makes a Model Organism? The Case of Arabidopsis' at the Annual GARNet meeting (September 6/7 2011, Cambridge, UK).
- 'The Epistemic Role of Bio-Ontologies in Data-Driven Research: A Philosophical Perspective' at the International Conference on Biomedical Ontologies (24/26 July 2009, Buffalo, NY).
- 'Bio-Ontologies and Data-Driven Research' at the International Conference of Bio-Medical Ontologies (24/26 July 2009, Buffalo, NY).
- 'The Regulatory Role of Bioinformatics' at the ESRC Genomics Network Conference (26/27 October 2008, London).
- 'Making Small Facts Travel' at the British Academy Conference 'Enquiry, Evidence and Facts' (13/14 December 2007, London).
- 'Bioinformatics and Genomics' at the ESRC Genomics Network Conference 'Genomics and Society: Today's Answers, Tomorrow's Questions' (25/26 October 2007, London).

References

John Dupré, Professor of Philosophy, University of Exeter; j.a.dupre@exeter.ac.uk
Hasok Chang, Professor of Philosophy and History of Science, University of Cambridge; hc372@cam.ac.uk
Mary Morgan, Professor of the History of Economics, London School of Economics; m.morgan@lse.ac.uk