

# Staffan Müller-Wille

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## Curriculum vitae

### Current Position

Since 10.2023    Professor in History and Philosophy of the Life Sciences, Department of History and Philosophy of Science, University of Cambridge

### Employment history

01.2020-09.2023    University Lecturer in History of Life, Human and Earth Sciences, Department of History and Philosophy of Science, University of Cambridge

01.2015-12.2019    Associate Professor in History and Philosophy of the Life Science, Department of Sociology, Philosophy and Anthropology, University of Exeter.

08.2014-12.2014    Senior Lecturer, Department of Sociology, Philosophy and Anthropology, University of Exeter (UK).

08.2010-07.2014    Senior Lecturer, Department of Sociology and Philosophy and Department of History, University of Exeter (UK).

08.2009-07.2010    Senior Lecturer (tenured), Department of Sociology and Philosophy, University of Exeter.

07.2007-07.2009    Lecturer, Department of Sociology and Philosophy, University of Exeter.

10.2004-07.2007    AHRC Research Fellow for Philosophy of Biology, ESRC Centre for Genomics in Society (Egenis), University of Exeter.

12.2000-09.2004    Resident Scholar [*wissenschaftlicher Mitarbeiter*], Department III (Rheinberger) of the Max-Planck-Institute for the History of Science, Berlin.

06.1998-11.2000    Scientific Curator, German Hygiene Museum, Dresden, exhibition project *Neue Ständige Ausstellung „Der Mensch“*.

1992-1993        Research Assistant in the projects *Molecular biology of biomineralisation in Acanthochaetetes (Porifera)*, Université Paris XII and Freie Universität Berlin, and *Sedimentology of siliceous Porifera-spicules*, European North-Sea Expedition 21, MS Meteor.

### Honorary Positions and Fellowships

Since 01.2015    Honorary Chair, University of Lübeck, Institute for Medical History and Science Studies.

Since 10.2007    Fellow of the Linnean Society of London

### Examinations and Degrees

06.11.1997        PhD in the Faculty of Historical Sciences and Philosophy at the University of Bielefeld (Germany).

Dissertation „Varietäten auf ihre Arten zurückführen“. Zur Begründung eines Natürlichen Systems der Pflanzen durch Carl von Linné (1707-1778).

Exam subjects: Philosophy, Sociology, Biology.

Reviewers: Prof. Dr. Wolfgang Lefèvre, Prof. Dr. Michael Wolff, Prof. Dr. Rüdiger Bittner.

22.04.1992 Diploma (MSc) in Geology-Palaeontology, Free University of Berlin.

Diploma-Thesis Paläobiologische Rekonstruktion einiger ausgewählter Sphinctozoa aus der Cassian Fauna (Unteres Karn, Trias) der Dolomiten.

Diploma-Map Geologie der südwestlichen Raxalpe (Nördliche Kalkalpen).

Exam subjects: General geology, historical and regional geology, palaeontology, zoology.

16.05.1983 Abitur (High school), Hebbelschule Kiel (Germany).

## Research and Research Leadership

### Summary

[Numbers in square brackets refer to selected items in the publication list below]

In my publications, I pursue epistemological questions, but since I do so through historical studies, they can also be classed as falling within the conceptual and cultural history of science. On the most general level, my research interests are defined by problems arising from the fact that the production of scientific knowledge is a contingent, empirically and rationally underdetermined, as well as geographically, socially, and culturally distributed process [64]. Under this perspective, two aspects of scientific knowledge production have always stood out for me:

- The reliance of science on induction and thus on a method of inference that depends on institutions and technologies of collecting and exchanging observations, data and specimens;
- The reliance of science on the conjunction of technologies and material practices that constitute objects of research often far removed from the objects encountered in everyday life.

I have been studying the first aspect since my dissertation project on Carl Linnaeus and what he called the “natural system” of plants. During my graduate studies of geology, palaeontology, and zoology, I had become interested in problems of classification. I was therefore glad to be able to pursue this interest as a funded PhD researcher at the Centre for Science and Technology Studies at the University of Bielefeld and the newly founded Max-Planck-Institute for the History of Science in Berlin (MPI). I completed my PhD in 1997 with a thesis on Carl Linnaeus and the “natural system.” Contrary to received views, I could demonstrate that Linnaeus did not base his “natural system” of plants and animals on logical analysis, but on inductive procedures, which depended on the collection and careful comparison of specimens [5]. This involved both insertion into global networks of commercial and scholarly exchange and the development of ways to list, file, and cross-reference information about plants. I pursued the latter aspect further, together with one postdoc and a research assistant, in a project that was funded by the Wellcome Trust from 2009 and 2013. Linnaeus has been described as a “pioneer in information retrieval”, and the large collection of Linnaean manuscripts and annotated books held by the Linnean Society of London offered a unique opportunity to study the intricate problems of information processing in an age restricted to paper-based technologies [35]. Invitations to join an international research group at the MPI on “Histories of Big Data,” as well as a grant from the Volkswagen Foundation to organize an international conference on the history and philosophy of systematics, allowed me to extend this “media studies” approach to whole research collectives, in order to better understand the social and intellectual transformations that the life sciences underwent around the key date of 1800. Some of the most crucial developments associated with this date, I argue, such as the emergence of the role of scientific curator or the formation of new disciplines like systematics and biogeography, were closely associated with the introduction of seemingly simple ordering tools like numbered species catalogues [24].

Alongside my research on Linnaeus, paper tools, and the history of natural history, I have been engaged in a long-term collaborative research project on the cultural history of heredity from 2001 to 2010, which was financed by the Karl Schädler Foundation with CHF 50,000 annually and received additional funds from the British Academy, the British Council, and the German Academic Exchange Service. This project touched on the second aspect of scientific knowledge production mentioned above. Its basic idea was to regard the

knowledge of heredity as more than the discipline of genetics, namely as a knowledge regime that stretches over all areas of society, including medical, juridical, political, and theological discourses. Results from this collaborative project have been documented in three edited volumes and one co-authored books. One of the main epistemological points that came out of this project for me was that the concept of heredity was not introduced to biology to address the age-old adage of “like engend’ring like.” Heredity was rather used to refer to the more narrowly defined phenomenon of hereditary variations, as exemplified by hereditary diseases or in plant and animal breeds. It thus referred to an entirely contingent phenomenon; a product of evolution, not a natural law [74]. This, as I argue with Hans-Jörg Rheinberger in a book that just appeared, is also why the gene, despite its centrality for biology, was never strictly defined. The power of this biological concept depended not on unambiguousness, but on the possibility to operationalize it in ever new ways in order to connect disparate fields of enquiry [1].

Working on the cultural history of heredity also drew my attention to the entanglement of genetics with the history of statistics [68]. This has become a recent focus of my research, in part due to my close collaboration with Sabina Leonelli on her ERC funded project “[DATA\_SCIENCE]: The Epistemology of Data-Intensive Science”. Concepts by which we classify human populations, I argue, are not simply representations of the world, but rather tools deployed to collect and process information about the world. This is particularly true of the race concept, and explains its political explosiveness [28]. Linnaeus, as I demonstrated in another, more historical essay, did indeed invent “race” out of more or less thin air, but this was precisely why it could serve him and other eighteenth-century anthropologists to radically overturn traditional conceptions of the global order of humanity [72]. At the present, I am using these insights to cast new light on how investigations in anthropology and genetics were structured by notions of kinship and race [23]. Together with three colleagues in Switzerland, I was awarded a Swiss National Foundation Synergeia Grant of CHF2,9m on the “Diagrammatics of Relatedness”, that will run to 2023 and allow me to fund two PhD students in order to develop this research strand further, with the long-term goal of producing a monograph on the history of the race concept.

A lot of my publications are co-authored. As a rule, all authors contributed equally. In the case of the two books I wrote with Hans-Jörg Rheinberger, we each drafted an equal number of chapters, and then went over each others drafts in several turns. We therefore decided to switch the order of authors with each publication. An additional area of publication are editions and translations of historical sources, on which I say more in the section outlining my expertise in management, administration and cooperation. I should also mention that many of my publications are revised translations of work published earlier (I am convinced that authors should bring their work into as many languages as possible). I have noted this in my publication list.

## Grants

- 10.2022-09.2024 *Natural History in the Age of Revolutions, 1776-1848*, AHRC Research Grant, co-applicant, £250,00, postdoc (PI), archival research, travel, outreach.
- 04.2019-12.2020 *Knowledge in Transit: Linnaeus's Laplandic Journey*, BA/Leverhulme Small Research Grant, £9,898, 1 research assistant, field work, workshops.
- 02.2019-11.2023 *In the Shadow of the Tree: The Diagrammatics of Relatedness as Scientific, Scholarly, and Popular Practice*, Swiss National Foundation Synergeia Grant, CHF2,900,000, co-applicant, 2 Post-Docs, 7 PhDs, archival research and image database, workshops and conference.
- 03.2019-10.2022 *Ischia Summer School for the History of the Life Sciences*, Thyssen Foundation, €47,000, main-applicant; conference.
- 06.2017–09.2018 Joint Postgraduate Workshop Programme, Zvi Yavetz School of Historical Studies (Tel Aviv University, Israel) and the Center for Medical History (Exeter, UK), \$10,000; co-applicant.
- 11.2014–08.2015 *Labels, Catalogues and Architectures: The Art and Science of Modern Systematics*, Volkswagen Foundation Symposium Grant, €27,000; co-applicant; conference.
- 08.2013-07.2014 *Symbiology: The Arts of Living Together*, Humanities and Social Sciences Strategy Fund, University of Exeter, £10,000; principal investigator; seminar series and workshops.
- 07.2013-07.2017 *Ischia Summer School for the History of the Life Sciences*, Wellcome Trust, £29,000, and National Science Foundation, \$20,000; co-applicant; conference.

- 12/2012–11/2013 *Linnaeus's Biological Essays*, Royal Society Research Grant, £4,700; Principal Investigator; translation costs.
- 04.2011–01.2012 *Worlds on Paper*, British Academy Small Research Grant, £5,000, and Wellcome Trust Conference Grant, £1700; principal investigator; conference.
- 10.2009–09.2010 *European Advanced Seminar in the Philosophy of the Life Sciences*, Brocher Foundation, Hermance, Switzerland, €25,000, and Wellcome Trust Conference Grant, £4,500; co-applicant; conference.
- 07.2009 *The Life of Cells: Philosophy and History of Cellular Research and Theory*, British Academy Small Research Grant, £3,800; co-applicant; conference.
- 05.2009–10.2013 *Rewriting the System of Nature: Linnaeus's Use of Writing Technologies*, Wellcome Trust Research Grant, £135,000; principal investigator; 1 Post-Doc, 1 Research Assistant.
- 12.2006 *Heredity in the Century of the Gene*, British Academy Small Research Grant, £7,000; principal investigator; conference.
- 07.2005–06.2006 *A Cultural History of Heredity*, British Council and German Academic Exchange Service, €3000; co-applicant; exchange program.
- 10.2000–10.2005 *A Cultural History of Heredity*, Karl Schädler Stiftung (Liechtenstein), CHF300,000; co-applicant.

### Fellowships and Research Groups

- Since 10.2021 Leader of Centre for Global Knowledge Studies (GloknoS) Research Group "Science and its Others: Histories of Ethno-Science", University of Cambridge (with harriet Mercer and Raphael Uchôa).
- 07.-09.2022 Guest Scholar, Max-Planck-Institute for the History of Science, Research Group (Krause) and Dept III (Schäfer).
- 10.-12.2019 Research Fellow, German Science Foundation Institute for Advanced Studies "Imaginarien der Kraft", University of Hamburg.
- 06.-07.2018 Guest Scholar, Department for History of Science and Ideas, Uppsala University.
- 04.-05.2017 Fellow, Research Group *Kinship and Politics: Rethinking a Conceptual Split and its Epistemic Implications in the Social Sciences*, Centre for Interdisciplinary Studies, Bielefeld.
- 10.-12.2016 Rausing Fellow, Department for History of Science and Ideas, Uppsala University.
- 05.-06.2015 Guest Scholar in the Mercator Research Group *Spaces of Anthropological Knowledge*, Ruhr-University Bochum.
- 01.-03.2015 Guest Scholar, Working Group *Sciences of the Archive*, Department II (Daston), Max Planck Institute for the History of Science, Berlin.
- 08.2014
- 07.2014 Guest Scholar, Centre for Literary Studies, Berlin.
- 08.2013 Guest Scholar, Working Group *Sciences of the Archive*, Department II (Daston), Max Planck Institute for the History of Science, Berlin.
- 04.2013
- 01.2012 Guest Scholar, Centre for Interdisciplinary Studies in Science and Humanities, National Autonomous University of Mexico, Mexico City.
- 04.2011–06.2012 Senior Research Fellow, Research Network *Historicizing Knowledge about Human Biological Diversity in the 20th Century*, Max Planck Institute for the History of Science, Berlin.
- 08.2010
- 09.2009 Guest Scholar, Centre for Literary Studies, Berlin.
- 09.2008–01.2009 Guest Scholar in the Working Group *History of Observation*, Department II (Daston), Max Planck Institute for the History of Science, Berlin.
- 10.2008 Research Affiliate, Wellcome Trust Centre for the History of Medicine, London.

- 09-10.2007 Research Fellow, Center for Philosophy of Science, University of Minnesota, Minneapolis.
- 11.2005 Guest Scholar, Maison des Sciences de l'Homme and Institut d'histoire et de philosophie des sciences et des techniques, Paris I (Sorbonne), Paris.
- 11.2004-08.2008 Research Fellow in the project *A Cultural History of Heredity*, Department III (Rheinberger) of the Max Planck Institute for the History of Science, Berlin.
- 04.-06.2004 Silverman Lectureship, Cohn Institute for the History and Philosophy of Science and Ideas, Tel Aviv University, Tel Aviv.
- 10.2003 Guest Lecturer, Institute for Philosophical Studies, National Autonomous University of Mexico, Mexico City.
- 01.1997-05.1998 Postdoc-Fellow, Department I (Renn) of the Max Planck Institute for the History of Science, Berlin.
- 12.1997 Research Fellow, Centre for History of Science, Royal Swedish Academy of Sciences, Stockholm.
- 03.1996-11.1997 PhD Fellowship, Department I (Renn), Max Planck Institute for the History of Science, Berlin.
- 03.-05.1995 Visiting Fellowship, German Academic Exchange Service, Department for History of Science and Ideas, Uppsala University.
- 03.1993-02.1996 PhD Fellow, German Science Foundation Graduate College *Structures, Genesis and Consequences of Science and Technology*, Institute for Science and Technology Studies, University of Bielefeld.

## Teaching and Researcher Development

### Summary

I currently teach three undergraduate courses a year at the University of Exeter, and am also involved there in postgraduate teaching and doctoral supervision. In addition, I teach one course a year to undergraduate students in the Molecular Life Sciences program at the University of Lübeck. Duties include preparation and presentation of lectures, moderating seminar discussion, and tutoring of individual students, with about five meetings per student during the academic year to monitor, and reflect on, their progress, as well as advise them on next steps in their careers. I also supervise BA and MA dissertations, as well as PhD dissertation projects. Exeter has a system in place for course evaluation by students, and we review the courses we give each year on the basis of the feedback we receive. In addition, we also engage in peer review of each other's teaching, either by joining the class of a colleague for one session, or in meetings dedicated to a particular pedagogical topic or problem.

I have been teaching regularly since 2003. Because I began my academic career at a research institution, I did not receive any formal pedagogical training and had to seek opportunities elsewhere, teaching at universities in Berlin, Mexico City and Tel Aviv. When I joined the University of Exeter in 2004 as a Research Fellow, I immediately started developing and teaching modules in the Department of Sociology and Philosophy on a voluntary basis. Due to my accumulated teaching experience, I was therefore considered qualified for higher-education teaching in the UK. That my teaching expertise is respected is witnessed by the fact that the Department of History and Philosophy of Science at the University of Cambridge appointed me as external examiner for their undergraduate and MPhil programmes. I also served as External Examiner for the MA programme in History of Science, Technology and Medicine at King's College.

I have contributed significantly to the teaching portfolio of my university by designing new modules and programs and by seeing them through accreditation. I single-handedly developed, led and taught undergraduate and postgraduate modules on history and theory of science, and thus ensured that this important and highly relevant subject was represented both in the Department of History and in the Department of Sociology, Philosophy and Anthropology. I have taught courses at all levels of university studies, both undergraduate and postgraduate. Apart from teaching already established courses, I have developed a number of undergraduate modules of my own at the University of Exeter (see lists of modules taught below). I also developed and implemented a masters programme in "History and Philosophy of Biology" at the University of Exeter, together with my colleague Maureen O'Malley, that ran from 2008 to 2016. I continue to teach the core module of this course, "Cultures of the Life Sciences," to MA Students in our Philosophy and Sociology of Science programmes, together with John Duprè and Sabina Leonelli.

In my teaching, I put a lot of emphasis on the classics of the discipline and the training of analytic and argumentative skills. In my lectures, I avoid reading out slides or a written lecture, speaking freely instead on the basis of notes. Lecture notes and slide content are kept independent of each other, and lecture notes and video recordings only made available after the lecture. The emphasis in my lecturing is on clearly explaining basic concepts and connections rather than conveying a lot of factual details. Another emphasis is on explaining how something we tend to take for granted can be seen under a completely different light if one only shifts one's conceptual framework.

Teaching at the University of Exeter is supported by an on-line System (Exeter Learning Environment) which I routinely use to provide students with lecture notes, seminar instructions, as well as lists and links guiding them to further reading and materials. In recent years, I have increasingly noticed that most students have great difficulties in locating and verifying information on the internet. Using WorldCat, online university library catalogues and other databases as well as handling internet resources like Internet Archive or Google books is a practical skill that needs hands-on pedagogy, despite the fact that we are teaching a generation that grew up with digital technologies. I have therefore begun to task students with small research problems during class, that they are asked to solve on their laptops in small groups and present to each other through online discussion forums and similar tools (Wikis, blogs). Which information to trust, and how to work with sources in a critical manner, is not a skill that can be transferred by specifying a set of rules, but needs a lot of practice.

In my supervision of dissertation projects, I am also rather hands-on, that is, I correct and comment upon student work in detail using digital commenting tools. My main concern in supervision of undergraduate and taught postgraduate students is to let them discover their own curiosity for a topic, so my supervision is not very directive. Instead, I try to make them realize what they are actually interested in. From 2014 to 2016, I

was the convenor of the Philosophy dissertation module, which involved introductory lectures, individual meetings with students to discuss their dissertation topics, allocation of supervisors and overseeing the process towards completion. I have supervised and co-supervised fourteen PhD students since 2007, most of which completed their PhD in time, and I am currently supervising or co-supervising five additional students.

My interest in PGR training is also reflected by the fact that several of my research students come from other universities than Exeter, and by my engagement in the organisation of postgraduate training schools. I have been teaching at international summer schools since 2000, and since 2011, I am one of the directors of the Ischia Summer School in History of Life Sciences, which every other year gathers research students and experts from all over the world for a weeklong, intense program of presentations and seminars. I think that engagement with PhD researchers, whom I regard as peers rather than pupils, is one of the best ways to network internationally – and to learn something new.

### Undergraduate Teaching

#### Modules Taught

- |                                    |   |
|------------------------------------|---|
| since 2021/22                      | NST Part II, HPS Paper 1, Re-visiting the Scientific Revolution, Department of History and Philosophy of Science, University of Cambridge (4 lectures).   |
| since 2020/21                      | NST Part II, HPS Paper 1, Natural Knowledge in the Enlightenment, Department of History and Philosophy of Science, University of Cambridge (4 lectures).<br><br>NST Part II, HPS Paper 2, Sciences of Territory and Population, Department of History and Philosophy of Science, University of Cambridge (4 or 8 lectures).<br><br>NST Part II, HPS Paper 3, Medicine, Race and Ethnicity, Department of History and Philosophy of Science, University of Cambridge (4 lectures). |
| since 2019/20                      | NST Part II, HPS Paper 3, Biology: Lab and Field, Department of History and Philosophy of Science, University of Cambridge (8 lectures).<br><br>NST Part III, History and Philosophy of Science (1 lecture and seminar, essay and dissertation supervision).  |
| since 2014/15                      | <i>Wissenschaftstheorie</i> (Theory of Science), lecture and seminar (3rd year UG, BA Molecular Life Sciences), Institute for Medical History and Science Studies, University of Lübeck).   |
| 2019/20                            | Part II, HPS Paper 2: Modern Sciences and Techniques (4 lectures).<br><br>Part II, Biological Anthropology, Comparative Human Biology (B4): Eugenics (1 lecture).   |
| 2014/15-2018/19                    | <i>The Human Condition: Classic Readings in Anthropology</i> , lecture and tutorials (2nd and 3rd Year), Department for Sociology, Philosophy, and Anthropology.  |
| 2009/10-2018/19                    | <i>Philosophy of Nature</i> , lecture and tutorials (2nd Year), Department for Sociology, Philosophy, and Anthropology, University of Exeter.   |
| 2005/06-2018/19                    | <i>Knowledge and History: Theories of Scientific Change</i> , lecture and seminar (3rd year), Department for Sociology, Philosophy, and Anthropology, University of Exeter.   |
| 2014/15-2015/16                    | <i>Philosophy Dissertation</i> , convenor and supervisor (3rd Year UG), Department for Sociology, Philosophy, and Anthropology, University of Exeter.   |
| 2012/13-2013/14                    | <i>Understanding the Modern World</i> , seminar (1st Year), Department of History, University of Exeter.  |
| 2008/09-2010/11<br>2012/13-2013/14 | <i>History of Science in Society</i> , lecture and seminar (2nd and 3rd Year), Department of History, University of Exeter.   |
| 2006/07-2007/08                    | <i>History and Epistemology of the Life Sciences</i> , lecture and seminar (3rd year), Department for Sociology and Philosophy, University of Exeter.   |

- 2005/06 *Sex and Death: Introduction to the Philosophy of Biology*, lecture and tutorials (1st year), Department for Sociology and Philosophy, University of Exeter. With John Dupré.
- 2003/04 *Kulturgeschichte der Vererbung*, Technische Universität Berlin (Guest lecturer).
- 2002/03 *Einführung in die historische Epistemologie*, Technische Universität Berlin (Guest lecturer).

#### Summer Schools

- 09.2022 Sommerakademie der Schweizer Studienstiftung *Kunst und Wissenschaft*, Magliaso. Seminar leader with Hans-Jörg Rheinberger.
- 09.2014 Sommerakademie der Schweizer Studienstiftung *Demokratie und Wissenschaft*, Magliaso. Seminar leader with Hans-Jörg Rheinberger, Hanna Wick and Hans Widmer.
- 09.2012 Sommerakademie der Schweizer Studienstiftung *Von Mendel zur Postgenomik: Vererbung, gestern und heute*, Magliaso. Seminar leader with Hans-Jörg Rheinberger and Dieter Söll.
- 02.2003 Seminar *Ansichten zur Wissenschaftsgeschichte*, Studienstiftung des Deutschen Volkes (German Academic Scholarship Foundation), Berlin. Seminar leader with Hans-Jörg Rheinberger.

#### Postgraduate Teaching

##### Development and Implementation of Taught Programs

- 2010/11-2012/13 MA History and Philosophy of Biology, University of Exeter; with Maureen O'Malley.
- 2005/06-2008/09 MSc Genomics in Society, University of Exeter; with John Dupré, Jane Calvert and Christine Hauskeller.

##### Modules taught

- since 2019/2020 MPhil in History of Science and Medicine, Department of History and Philosophy of Science, University of Cambridge (1 lecture and seminar, essay and dissertation supervision)
- 2013/14-2018-19 *Cultures of the Life Sciences*, lecture and seminar (PGT), Department for Sociology, Philosophy, and Anthropology, University of Exeter. With Sabina Leonelli.
- 2012/13 *Geschichte der Vererbung*, seminar, Technical University Berlin (Guest lecturer).
- 2009/10, 2012/13 *History and Philosophy of the Life Sciences*, lecture and seminar (PGT), Department for Sociology and Philosophy, University of Exeter. With Maureen O'Malley.
- 2009/2010 *Organising Knowledge in Early Modern Europe: Writing, Reading, Collecting (1500-1800)*, lecture and seminar, Department of History, University of Exeter. With Isabelle Charmantier.
- 2006/07-2007/08 *History and Epistemology of the Life Sciences*, lecture and seminar, Department for Sociology and Philosophy, University of Exeter.
- 2005/06-2010/11  
2012/13-2013/14 *Knowledge and History: Theories of Scientific Change*, lecture and seminar, Department for Sociology, Philosophy, and Anthropology, University of Exeter. With Isabelle Charmantier.
- WS 2003 *Historical Epistemology*, seminar, National Autonomous University of Mexico, Mexico City (Guest lecturer).
- 2004/05-2005/06 *Genomics in Society*, lecture and seminar, Department for Sociology and Philosophy, University of Exeter. With John Dupré, Jane Calvert and Christine



Hauskeller.

2004/05 *Genes and Species, Class and Race: Towards a Social History of Classification*, lecture and seminar, Tel Aviv University (Guest lecturer).

#### Summer schools and Postgraduate Conferences

- Since 2013 Member of the Board of Directors of the Ischia Summer School on the History of Life Sciences, Stazione Zoologica “Anton Dohrn”, Ischia. Co-Organizer with Janet Browne (Harvard University) and Nick Hopwood (University of Cambridge).
- 06.2022 Ischia Summer School on the History of Life Sciences *Living Relations*, Stazione Zoologica “Anton Dohrn”, Naples/Ischia. Co-Director.
- 06.2019 Ischia Summer School on the History of Life Sciences *Life and Death*, Stazione Zoologica “Anton Dohrn”, Naples/Ischia. Co-Director.
- 07.2017 ZiF Resarch Group Summer School *Kinship and Politics: Undoing the Boundaries*. Lecturer.
- 06.2017 Ischia Summer School on the History of Life Sciences *Cycles of Life*, Stazione Zoologica “Anton Dohrn”, Naples/Ischia. Co-Director.
- 06.2015 Ischia Summer School on the History of Life Sciences *Geographies of Life*, Stazione Zoologica “Anton Dohrn”, Naples/Ischia. Co-Director.
- 06.2013 Ischia Summer School on the History of Life Sciences *Creating Life: From Alchemy to Synthetic Biology*, Stazione Zoologica “Anton Dohrn”, Naples/Ischia. Co-Director.
- 05.2011 Ischia Summer School on the History of Life Sciences *Biology and the Public*, Stazione Zoologica “Anton Dohrn”, Naples/Ischia. Final Comments.
- 09.2010 First European Advanced Seminar in the Philosophy of the Life Sciences *Causality and Disease*, Brocher Foundation, Hermance. Co-organizer with Giovanni Boniolo, Jean Gayon and Bernardino Fantini.
- 09.2008 European Graduate Meeting in the Philosophy of the Life Sciences, Gorino Sullam (Italy). Co-organizer.
- 05.2007 School of Humanities and Social Sciences Postgraduate Conference “Beyond History: Understanding Humanity,” University of Exeter. Plenary Speaker.
- 07.2006 Postgraduate conference *Future Directions in Biology Studies*, Indiana University, Bloomington. Keynote Speaker.
- 07.2005 Ninth Ischia Summer School on the History of Life Sciences *Gathering Things, Collecting Data, Producing Knowledge*, Faculty, Stazione Zoologica “Anton Dohrn”, Ischia. Lecturer.
- 05.2005 Organizer of postgraduate conference *New Issues in Philosophy of Biology – New Perspectives for Philosophy of Science*, University of Exeter. Co-organizer with John Dupré, Paul Griffiths and Christine Hauskeller.
- 2001–2003 “Studenttag Wissenschaftsgeschichte”, an annual one-day workshop for postgraduate students in science studies supported by a network of institutions in Berlin. Organizer.
- 06.2000 Third International Laboratory for the History of Science *Measurement and Representation in 18<sup>th</sup> Century Sciences*, Tel Aviv University. Lecturer.

#### Research Training

##### PhD projects under supervision

- Since 2022 Hitesh Pant, University of Cambridge, *Planting the seeds of resistance: Recovering the history of seed sovereignty and peasant-friendly farming* (with Helen Curry).
- João Joaquim, University of Cambridge, *From the Potato Virus Research Station to the Virus Research Unit: Agricultural Virology in mid-20<sup>th</sup> Century Britain* (with Helen Curry).

- Svit Komel, University of Ljubljana, *Rule and measure: a history of juridical practices in the age of surveys* (with Katja Škrubej).
- Since 2020 Olin Moctezuma-Burns, University of Cambridge, *Kitchen lists and the construction of botanic knowledge in the early modern household* (with Lauren Kassell)
- Sophia Spielmann, Technical University Berlin, *Ipecacuanha as an example of knowledge exchange practices between South America and Europe in the eighteenth and nineteenth centuries* (with Friedrich Steinle).
- since 2019 Niklaas Görsch, University of Lübeck, *The Age of Affinity: Diagrams in Natural History, 17th to early 19th Cen.*
- Andrea Ceccon, University of Lübeck, *The Role of Canonizing and Popularizing Mendelian Genetics.*
- Claus Stoeckle, Goethe University Frankfurt, *Botanische Mikrotechnik und Pflanzenreproduktion. – Wie im 18. und 19. Jahrhundert aus Objekten der Natur epistemische Dinge wurden* (with Moritz Epple).
- Completed PhD projects
- 2016–2023 Markus Stelter, Leuphana University Lüneburg, Germany, *Denken, Schenken, Wissen – eine Kultur- und Wissensgeschichte des Schenkens zwischen 1770 und 1830* (with Christina Wessely).
- 2015–2020 Mark Canciani, University of the Basque Country, San Sebastián, *Biological Altruism and Symbiosis* (with Alvaro Moreno).
- 2016–2019 Emily Stone, University of Exeter, *‘The Cat is Nature’s Beauty’: More-Than-Human Ethnicity and Eugenics Discourse Within Pedigree Cat Showing in the United Kingdom.*
- 2015–2018 Naomi Yuval, University of Tel Aviv, *Pet Plants: Plants and Human Beings in Nineteenth-Century Britain* (with Rivka Feldhay).
- 2012–2015 Sarah Jones, University of Exeter, *What was Free Love?* (with Sarah Toulalan)
- 2012–2015 Pascal Germann, University of Zurich, *„Laboratorien der Natur“: Humangenetik and Rassenhygiene in der Schweiz, 1920–1970* (with Philipp Sarasin).
- 2012–2015 Temilola Alanamu, University of Exeter, *Gender in Nineteenth-Century Yorubaland: An Abeokuta Case Study* (with Stacey Hynd).
- 2011–2015 Tarquin Holmes, University of Exeter, *Regression in Evolution and Genetics* (with Sabina Leonelli).
- 2011–2015 James Lowe, University of Exeter, *Epigenesis and Preformation in Edward Beecher Wilson* (with Sabina Leonelli).
- 2010–2015 Antonios Basoukos, University of Exeter, *Science, Practice, and Justification: the A Priori Revisited.*
- 2011–2013 Giuditta Parolini, University of Bologna, *Exploring Diversity by Numbers: Statistics, Blood Groups and Human Population Variability* (with Giuliano Pancaldi).
- 2009–2017 Maria do Mar Gago, University of Lisbon, *Coffee and Science: A Fresh Trajectory of the Late Portuguese Colonial Empire* (with Tiago Saraia).
- 2008–2012 Pierre-Olivier Méthot, University of Exeter, *Darwinian Medicine* (with John Dupré).
- 2007–2011 Robert Meunier, European School of Molecular Medicine, Milano, *Traits at the Intersection of Genes, Environment and Disciplinary Perspective* (with Marc Bedau).

## External Examining

### Taught Programs

- 2016/17-2018/19 MPhil in History and Philosophy of Science and Medicine, Department for the History and Philosophy of Science, University of Cambridge.
- since 2013/14 MA Science Technology and Medicine in History, Department of History, King's College, London.
- 2011–2014 History and Philosophy of Science Part II (3rd Year UG), Natural Sciences Tripos, Department for the History and Philosophy of Science, University of Cambridge.

### PhD theses

- 2022 Radboud University, Nijmegen, Netherlands.
- 2020 University of the Basque Country, San Sebastian.
- 2019 Queen's University Belfast, School of Natural and Built Environment.
- 2018 Uppsala University, Department for History of Ideas and Science.
- 2017 Durham University, Department of Philosophy.  
University of Bologna, Department for Science, Cognition and Technology.
- 2016 Uppsala University, Department for History of Ideas and Science.
- 2013 University of Cambridge, Department for the History and Philosophy of Science (2x).  
University of Bristol, Department of Philosophy.
- 2012 University of Cambridge, Department for the History and Philosophy of Science.
- 2011 University of Leeds, Department for the History and Philosophy of Science.
- 2008 University of Brighton, Department of History.

## Service

### Summary

After completion of my PhD, I did not enter an academic position right away, but worked as a curator for the German Hygiene Museum in Dresden, a health museum renowned for its innovative, interactive exhibitions. I was part of a team responsible for developing a new permanent exhibition, and thus not only learned a lot about public engagement and museum pedagogy, but also how to handle a complex work flow, involving collaboration with scientific advisors, designers, pedagogical staff, museum workshops, collection managers and local politicians, while meeting extremely tight deadlines. I was therefore already well-equipped with organizational skills, when I was hired in 2000 on the basis of a five-year contract by the Max Planck Institute for the History of Science to co-direct the project “A Cultural History of Heredity” with Hans-Jörg Rheinberger.

The position exposed me to all managerial and administrative tasks associated with large-scale projects. In close collaboration with Rheinberger, and later on with John Dupré at the ESRC Research Centre for Genomics in Society, I learned how to secure funding for a long term project, calculate and oversee budgets, advertise positions, conduct interviews and select candidates, and lead and mentor post-docs on the project. The project also involved the organization of all-in-all five workshops and the establishment and maintenance of an international research network with colleagues from Germany, Norway, France, Italy, Spain, Israel, Mexico, England, the USA, and Canada. The managerial skills I thus acquired were essential for carrying out the four-year Wellcome Trust funded project on Linnaeus’s manuscripts successfully. At the time, the Wellcome Trust was not buying out PIs from teaching, so I had to manage the project alongside my usual teaching and administrative duties.

My position at the University of Exeter also made me familiar with some essential aspects of university management and administration. From 2010 to 2014, I served as Director of Postgraduate Research in the Department of History (with more than 100 doctoral students). In this position, I processed applications for PhD study, allocated supervisors, interviewed and selected candidates for funded PhDs, and oversaw the annual PGR monitoring exercise. I contributed to the consolidation of a vibrant PGR research culture both at departmental and College level at Exeter, and was also involved in the establishment of the AHRC South West and Wales Doctoral Training Partnership between universities in the region.

Since 2012, I have been co-directing Egenis – the Centre for the Study of Life Sciences (Egenis) together with John Dupré and Sabina Leonelli. Funding from the Economic and Social Research Council for Egenis had run out, and the Centre had to be placed on a new, sustainable basis. Together, we managed to secure internal and external funding, and Egenis continues to thrive as a university centre that is internationally recognised for its interdisciplinary research into the nature, history, and socio-political as well as epistemic implications of the modern biosciences.

Outside the University, I engage a lot in professional services, mainly by serving on committees of scholarly societies and reviewing grant proposals and manuscripts on a regular basis. I have also consulted non-HE partners, especially the Natural History Museum and the Linnean Society in London. Impact and outreach are becoming an increasingly valued aspect of academic work, and in recent years I have been thinking of ways to reach out that go beyond the usual public lecture or event. The tools for this, I believe, are increasingly provided by digital humanities. I have advised the Linnean Society on how to present their Linnaean manuscript collection online, and with the British Society for History of Science I developed a website that presents a new, commented English translation alongside the German original. The aim of this project was not only to produce another translation, but also to allow non-German speakers to gain insight into the complexities of the original text and its translation.

In 2016, I discovered yet another, fascinating way of public engagement through travelling. Together with American artist James Prosek, ornithologist Kristof Zyskowski, and PR strategist of the Swedish Lapland Visitors Board Håkan Stenlund, I went on a week-long trip through Lapland “in the footsteps” of Linnaeus. In collaboration with Elena Isayev, a colleague in classics at Exeter, I am now developing a project that will combine historical methods with participant observation by producing a draft translation of Linnaeus’s Lapland journal “on site” during field campaigns and in close collaboration with local experts and audiences. A first visit to universities in Rovaniemi (Finland) and Umeå (Sweden) has allowed us to build a network of potential collaborators in the humanities, arts and heritage sector (<https://linnaeus-in-lapland.net/>).

University Administration

2022	Member of the NST Management Committee
Since 2020	Member of HPS Board, Executive Committee, Teaching Committee and Degree Committee Part II Senior Examiner, Department for History and Philosophy of Science, University of Cambridge Manager, MPhil in History and Philosophy of Science and Medicine, Department for History and Philosophy of Science, University of Cambridge Manager, NST Part II, HPS Paper 2, 'Sciences and Empires'. Dignity Officer, Department for History and Philosophy of Science, University of Cambridge.
2012-2019	Deputy Director, EGENIS – Centre for the Study of Life Sciences, University of Exeter.
2010-2014	Director of Postgraduate Research, Department of History, University of Exeter.
2010-2014	Graduate Research Strategy Group, College of Humanities, University of Exeter

Memberships

Since 2004	British Society for the History of Science
Since 1998	Society for the History of Natural History
Since 2000	Gesellschaft für Geschichte der Wissenschaften, der Medizin und der Technik
Since 1996	History of Science Society
Since 1995	International Society for the History, Philosophy and Social Studies of Biology
Since 1994	Deutsche Gesellschaft für Geschichte und Theorie der Biologie
2004-2020	Philosophy of Science Association

Professional Service and Consultation

## Institutions

2018-2019	Member of the Strategic Research Review of History and Philosophy of Science, University of Cambridge.
2011–2013	Advisory Board Member, Centre for Arts and Humanities Research, Natural History Museum, London.
2010–2011	Member of the Wellcome Trust Digital Library Advisory Board.
2002-2004	Elected Member (Representative of Research Scholars) of the Humanities Section of the Max Planck Society.
1999-2000	Member of Works Committee ("Betriebsratsmitglied"), German Hygiene Museum, Dresden.

## Projects

Since 2022	Advisory Board Member of the Augustinus Foundation project "Field/Work in the Archive: Herbaria as Sites of Cultural Exchange" (Denmark).
Since 2020	Advisory Board Member of the Wellcome Trust project "From Collection to Cultivation: Historical Perspectives on Crop Diversity and Food Security".
Since 2014	Advisory Board Member of the ERC Starting Grant "[DATA_SCIENCE]: The Epistemology of Data-Intensive Science."

- 2013-2015 Academic Advisor of the Mellon Foundation funded project “Digitizing Linnaeus: Cataloguing, Preservation and Digitisation of the Linnaean Manuscript Collection,” Linnean Society of London.
- 2010-2012 Scientific Consultant, Project “The Power of Science: German Science in Portugal 1933-45”, Fundação para a Ciência e a Tecnologia (Portugal), 2010-2012.
- 2009-2011 Member of the Wellcome Trust Research Resources in Medical History Committee.
- 2007-2008 Advisory Group Member, Wellcome Trust Project “Preserving the History of Human and Medical Genetics.”
- I have reviewed grant proposals for the German Science Foundation, Volkswagen Foundation, Centre for Interdisciplinary Studies (Bielefeld), Swiss National Foundation, ETH Zurich, Aarhus University, Wellcome Trust, National Science Foundation (USA) and Israel Science Foundation.

#### Journals and Book Series

- Since 2019 Advisory Board Member, *History and Philosophy of the Life Sciences*.
- Since 2017 Editorial Board Member, *Историко-биологические исследования/Studies in the History of Biology*.
- Since 2007 Editorial Board Member *NTM – Zeitschrift für Geschichte der Wissenschaften, Technik and Medizin*
- Since 2007 Editorial Board Member *Endeavour*.
- 2013-2018 Editor-in-Chief, *History and Philosophy of the Life Sciences*
- 2012-2014 Editorial Board Member, *Journal for the History of Biology*.
- 2010-2012 Associate Editor, *History and Philosophy of the Life Sciences*
- 2008-2012 Associate Editor, *Historical Studies of the Natural Sciences*
- 2006-2010 Editorial Board Member *History and Philosophy of the Life Sciences*
- I have reviewed articles for Nature Review Genetics; Frontiers of Genetics; Current Anthropology; Sociology; Isis; British Journal for the History of Science; Notes and Records of the Royal Society; Annals of Science; History of Science; Science in Context; Studies in History and Philosophy of Biological and Biomedical Sciences; Science & Education; Social Studies of Science; History of the Human Sciences; History and Philosophy of the Life Sciences; Journal for the History of Biology; Genomics, Society and Policy; Big Data & Society; Medical History; Centaurus; Revue de Histoire des Sciences; Ludus Vitalis; NTM–Zeitschrift für Geschichte der Wissenschaften, Technik and Medizin; Berichte zur Wissenschaftsgeschichte; Annals of the History and Philosophy of Biology; Historische Anthropologie.
- Since 2016 Editorial Board Member of the book series *Emergence of Natural History*, Brill.
- Since 2015 Editorial Board Member of the book series *History, Philosophy and Theory of the Life Sciences*, Springer.
- I have reviewed book manuscripts for University of Cambridge Press; University of Chicago Press; Princeton University Press; University of Washington Press; University of Pittsburgh Press; Springer; Berghahn Books; Imperial College Press; Vandenhoeck & Ruprecht.

#### Societies

- Since 2017 Member of the Werner Callebaut and Marjorie Green Prize Committees, International Society for the History, Philosophy, and Social Studies of Biology.
- Member of the Site selection and Membership Development Committees, International Society for the History, Philosophy, and Social Studies of Biology.
- 2015-2016 Member of the Nomination Committee, History of Science Society.

2008-2012	Council Member, British Society for the History of Science.
2005-2007	Council Member and Member of the Publications Committee, International Society for the History, Philosophy, and Social Studies of Biology.
<b>Exhibitions</b>	
Since 2017	Critical Friend, Berlin Exhibition in the Humboldt Forum, Berlin.
2008	Scientific Advisor, <i>A Evolução de Darwin</i> , Fundação Calouste Gulbenkian, Lisbon, 2008.
2006	Scientific Advisor, <i>Linnaeus in America</i> , American Swedish Historical Museum, Philadelphia.

#### Organization of Conferences and Workshops

19.-20.10.2022	Workshop "Science and Its Others: Histories of Ethnoscience", Darwin College, Cambridge (with Raphael Uchoa and Harriet Mercer).
14.-15.03.2022	International Conference "In the Shadow of the Tree: The Diagrammatic of Relatedness as Scientific, Scholarly, and Popular Practice", University of Zurich (with Caroline Arni, Eric Hounshell, Marianne Sommer and Simon Teuscher).
24.-27.06.2015	Volkswagen-Symposium "Labels, Catalogues and Architectures: The Art and Science of Systematics", Herrenhausen Castle, Hannover (with Michael Ohl).
18.-24.08.2014	Dritte Siggener Begegnung "Biodiversität zwischen Ökologie, Ökonomie, Ästhetik, Ethik und Politik", Gut Siggel (Germany).
24.07.2013	Symposium <i>From natural history to ecology: towards a comparative history of life sciences in the long nineteenth century</i> , International Congress for the History of Science, Technology and Medicine, Manchester (with Anastasia Fedotova).
25-27.04.2013	Workshop <i>Visibility Matters – Rendering Human Origins and Diversity in Space and Time</i> , Universität Luzern (with Veronika Lipphardt, Marianne Sommer and Susanne Bauer).
11-13.01.2012	Conference <i>Worlds of Paper: Writing Natural History from Gessner to Darwin</i> , Linnean Society, London (with Isabelle Charmantier).
14.-17.07.2011	Annual Meeting of the British Society for the History of Science, University of Exeter. Local Organizer and Member of the Program Committee.
02.-04.09.2010	"Human Heredity in the Twentieth Century (A Cultural History of Heredity V)," University of Exeter (with Bernd Gausemeier and Edmund Ramsden).
23.-24.04.2009	"Life of the Cell: Philosophy and History of Cell Research," Egenis, University of Exeter (with Maureen O'Malley).
25.-29.07.2007	Biannual meeting of the International Society for the History, Philosophy and Social Studies of Biology, University of Exeter. Program Co-Chair (with Hans-Jörg Rheinberger) and Member of the Local organizing Committee.
11.-13.12.2006	"Heredity in the Century of the Gene (A Cultural History of Heredity)," University of Exeter (with John Dupré and Hans-Jörg Rheinberger).
13.-15.01.2005	"A Cultural History of Heredity III: Nineteenth and Early Twentieth Centuries," Max Planck Institute for the History of Science, Berlin (with Hans-Jörg Rheinberger).
10.-12.01.2003	"A Cultural History of Heredity II: Eighteenth and Nineteenth Centuries," Max Planck Institute for the History of Science, Berlin (with Hans-Jörg Rheinberger).
25.-26.05.2001	"A Cultural History of Heredity I: Seventeenth and Eighteenth Centuries," Max Planck Institute for the History of Science, Berlin (with Hans-Jörg Rheinberger and Peter McLaughlin).

#### Outreach

## Public Lectures

- 31.03.2022 "Linnaeus in Lapland (1732)", Cambridge Science Festival
- 02.12.2019 "Linnaeus in Lapland: Parasites, Reindeer and People", Founder Lecture, Linnean Society of London.
- 12.10.2018 "Diafah: HOSPITALITY", Conversation with Elena Isayev, Yasmeen Mahmoud, Ibrahim Haj Abdullah and Maher Abed Alaziz, Exhibition Space Public Luxury at ArkDes, Stockholm.
- 14.09.2017 "Stets zu Diensten – Karl Sigismund Kunth als Referent und Rechenmeister Alexander von Humboldts," Lecture with Katrin Böhme, Alexander von Humboldt-Tag 2017 "Ansichten aus dem Blätterwald," Berlin-Brandenburgische Akademie der Wissenschaften.
- 01.12.2016 "Linnaeus at Work: Information Processing in the Paper Age," Evening Lecture, Svenska Linnésällskapets höstmöte.
- 20.10.2016 "Book annotation in eighteenth-century natural history," Evening Lecture, Hagströmer Library, Stockholm.
- 12.02.2015 "Mendel and Darwin on Heredity," Darwin Day 2015 "Mendel Darwin and the changing view on genetics," Centre for Ecological and Evolutionary Synthesis, University of Oslo.
- 28.09.2012 "From Linnaeus to DNA," *A Celebration of Science*, Royal Borough of Kensington and Chelsea, London.
- 12.01.2012 "Rewriting the System of Nature," Evening Talk, Linnean Society of London.

## Public Events

- 27-28.04.2015 "From Cabinet to Internet: Digitising Natural History and Medical Manuscripts," Linnean Society of London (with Isabelle Charmantier and Andrea Deneau).
- 16.12.2014 "Nightshades: You say 'potato,' I say 'patata'," Drama Studio, Phoenix Cultural Centre, Exeter (with Åsa Sonjasdotter, Academy of Contemporary Art and Creative Writing, Arctic University of Norway, and Sandy Knapp, Natural History Museum, London).

## Theatre

- 20.11.2010 "Zellen und ihre Verbindungen", Theater am Ufer, Berlin. Participant in the annual retreat of the theatre.

## Radio

- 08.07.2017 "Carl Linnaeus: Naming Nature", The Forum, BBC Worldservice, with Sandra Knapp and Lisbet Rausing, Host: Quentin Cooper.
- 14.09.2015 "Radiokolleg - Vom Homunkulus zur Postgenomik: Die Geschichte der Genetik", Österreichische Rundfunk, Ö1, Gestaltung Wolfgang Däuble
- 28.09.2012 "From Linnaeus to DNA", *A Celebration of Science*, Royal Borough of Kensington and Chelsea, London.
- 19.04.2012 "Der Apfel fällt nicht weit vom Stamm. "Vererbung" zwischen Biologie und Kultur.", ORF, Dimensionen - die Welt der Wissenschaft.
- 09.06.2010 "Colour Coded", Documentary presented by Trevor Phillips, BBC 4, Science Unit.

## Newspapers and journals

- 2017 Daniela Blei, "How the Index Card Cataloged the World," *The Atlantic*, December 1, 2017.  
James Prosek, "A Botanist in Swedish Lapland," *New York Times*, May 16, 2017.
- 2015 Elsa Abdoun, "Cellules souches, microbiote, enzymes....: Nous transmettons bien plus que de l'ADN," *Science & Decouvertes*, June 2015.  
Johann Grolle, "Erbsenzähler im Kloster," *Der Spiegel*, 14.03.2015.

## Podcasts



2019

„Mendel's Trick,“ Phil Sansom, The Naked Scientists,  
<https://www.thenakedscientists.com/podcasts/naked-genetics/mendels-trick>.