

Program on Science, Technology & Society

Harvard Kennedy School **Fall 2019** Harvard University

WELCOME FROM THE DIRECTOR

Dear Friends of STS@Harvard,

Each day brings provocative news from the frontiers of science and technology. If ever there was a time to understand and engage with these developments, that time is now. This newsletter reports on the STS Program's broad-gauged efforts to do just this over the past year.

The Program continues to play a major role in undergraduate and graduate training through our core offerings in Environmental Science and Public Policy (ESPP), as well as courses offered in collaboration with the Departments of Sociology and History of Science. We advise honors theses in several concentrations, and we encourage undergraduate interest in STS through our annual essay competition. At the graduate level, the STS Fellows Program and the Science, Technology and Policy Studies (STePS) special field in the Public Policy Ph.D. program are drawing highly qualified younger scholars into the field. The Graduate Secondary Field in STS continues to enroll students from across the university.

The Science and Democracy lecture series this past year featured two highly visible events. In the Fall of 2018, we hosted former MIT Media Lab director Joichi Ito speaking on the ethics of artificial intelligence. In the Spring of 2019, we welcomed noted British historian David Edgerton, who presented a talk on the roles of innovation and imitation in the development of technology. The STS Circle remains Harvard's most prominent forum for STS-related work by junior scholars in the Boston area, as well as STS affiliated faculty, fellows, and visiting researchers.

We were fortunate this year to secure funding for two new and exciting projects. A grant from the Hewlett Foundation allowed us, last August, to host the first of three Summer Schools on "Expertise, Trust and Democracy." We also received a generous grant from the Eric and Wendy Schmidt Fund for Strategic Innovation to pursue research and teaching on ethics at the frontiers of new and emerging technologies.

The STS Fellows Program and the Science and Democracy Network (SDN) help us maintain connections across the cohorts of STS trainees who pass through Harvard each year. In July, we held an extremely successful reunion of former Harvard STS Fellows in Berlin. A first of its kind, the reunion is certain not to be the last! Just before Labor Day, Harvard hosted the 18th Annual Meeting of SDN in Cambridge. Always invigorating, SDN allows us to share the richness of our research along with the warmth of our relationships.

Years bring transitions. An important loss was the departure of Shana Ashar, Assistant Director of the STS Program, for a position at the Harvard Medical School. Fortunately, there are many arrivals to offset the losses: books, degrees, projects, and varied career advances. Please read on for more information about the achievements of our current and former STS Fellows – and much else!

With thanks for your invaluable interest and support and my best wishes for the New Year,

Shana

UPCOMING EVENTS AND DEADLINES

January 31, 2020

Deadline for non-stipendiary fellowship applications to STS@Harvard.

April 1, 2020

Science and Democracy Lecture with Neil Walker, Regius Professor of Public Law and the Law of Nature and Nations at University of Edinburgh

June 24-26, 2020

19th Annual Meeting of Science and Democracy Network in Copenhagen.

July-August 2020

2nd Summer School on "Expertise, Trust and Democracy" (dates to be determined)

Find out more online

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PROGRAM ON SCIENCE,
TECHNOLOGY & SOCIETY

Science and Democracy Lectures

Each semester, the STS Program convenes the **Science and Democracy Lecture**, a public event that regularly attracts hundreds of people to listen to leading thinkers who explore both the promised benefits of our era's most salient scientific and technological breakthroughs and the potentially harmful consequences of developments that are inadequately understood, insufficiently debated, or poorly managed by politicians, experts, lay publics, and policy institutions. These lectures were co-sponsored by the Harvard University Center for the Environment, the Weatherhead Center for International Affairs, and the School of Engineering and Applied Sciences.

Joichi Ito

November 1, 2018

The poster features a dark background with a grid of glowing blue and white lines, resembling a digital or network structure. Text is overlaid in white and yellow.

SCIENCE & DEMOCRACY LECTURE SERIES 2018
Program on Science, Technology & Society
HARVARD KENNEDY SCHOOL HARVARD UNIVERSITY

JOICHI ITO
Director, MIT Media Laboratory

THE LIMITS OF ETHICAL A.I.

WITH PANELISTS
Joshua D. Greene
Professor, Department of Psychology, Harvard University
Nicco Mele
Associate Professor, Center for Health, Politics, and Public Policy, Harvard Kennedy School
Martha Minow
Fletcher School, Harvard University School of Law
MODERATED BY
Sheila Jasanoff
Professor, Program on Science and Technology Studies, Harvard Kennedy School

THURSDAY
November 1, 2018
5:00-7:00pm
Emerson Hall
Room 105
25 Quincy Street
Harvard University

CO-SPONSORED BY
Center for the Environment
Weatherhead Center for International Affairs
School of Engineering and Applied Sciences
Program on Science, Technology & Society
HARVARD KENNEDY SCHOOL HARVARD UNIVERSITY

<http://sts.hks.harvard.edu/>

MIT Media Lab Director **Joichi Ito** discussed how public discourse about the ethics and governance of artificial intelligence (AI) has increasingly been dominated by a vision that promotes voluntarily “responsible practices” over regulation. Ito questioned whether such practices, including, for instance, building algorithmic fairness into AI-systems, will be enough to confront the possible dangers of AI. Drawing parallels to the anti-war movements of the Vietnam War, Ito imagined a situation where the public might go on the streets to hold the tech-industry and the government accountable for its failed attempts to deal with advancements in AI and technology. A panel of distinguished Harvard faculty, including **Joshua D. Greene**, Professor of Psychology, **Martha Minow**, 300th Anniversary University Professor and former Dean of Harvard Law School, and **Nicco Mele**, Director of the Shorenstein Center for Media, Politics, and Public Policy at Harvard Kennedy School, pushed the discussion further by offering insights from psychology, law, and media studies. In February 2019 the STS Fellows hosted a meeting with Ito and his team from the MIT Media Lab to follow up and further explore overlapping themes in our respective research programs.

A video of the lecture is available [here](#).

David Edgerton

April 16, 2019

The poster features a dark background with a pattern of white birds in flight, creating a sense of movement and direction. Text is overlaid in white and yellow.

SCIENCE & DEMOCRACY LECTURE SERIES 2019
Program on Science, Technology & Society
HARVARD KENNEDY SCHOOL HARVARD UNIVERSITY

DAVID EDGERTON
Hans Rausing Professor of the History of Science and Technology, King's College, London

IMITATION, INVASION, INNOVATION
What really matters in global history of technology

WITH PANELISTS
Warwick Anderson
Fletcher School and Harvard Business School, Harvard University
Maya Jasanoff
Senior Lecturer, Harvard University
Tarun Khanna
Frost Foundation Professor, Harvard Business School
MODERATED BY
Sheila Jasanoff
Professor, Program on Science and Technology Studies, Harvard Kennedy School

TUESDAY
April 16, 2019
5:00-7:00pm
Tsai Auditorium
1730 Cambridge Street
Harvard University

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Center for the Environment
Weatherhead Center for International Affairs
School of Engineering and Applied Sciences
Program on Science, Technology & Society
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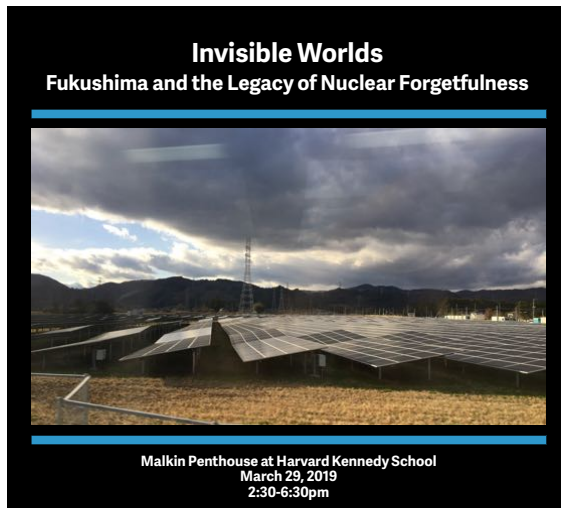
David Edgerton, Hans Rausing Professor of the History of Science and Technology at King's College London, reprised a theme from his classic book *The Shock of the Old* by posing an intriguing paradox: Why is it that innovation, disruption, and the new take up so much space in the discourse on the economy when the world is imitating old forms and old technologies more than ever? Through historical examples, he explained that, while innovation is seen as a sign of creativity and entrepreneurship, imitation tends to be seen as a lack of authenticity and inventiveness, and hence largely belonging to, in the Western imagination, developing countries. To understand global technological change, Edgerton argued, we would have to break up and understand these oppositions. Edgerton was joined by a panel of respondents including **Maya Jasanoff**, Coolidge Professor of History and Harvard College Professor, **Warwick Anderson**, Janet Dora Hine Professor of Politics, Governance and Ethics at the University of Sydney, and **Tarun Khanna**, Jorge Paulo Lemann Professor at Harvard Business School. All of these distinguished panelists offered critical perspectives from their own work in discussing Edgerton's analysis of the innovation-imitation schism.

A video of the lecture is available [here](#).

Workshops and Initiatives

The STS Program offers a vibrant model for One Harvard through outreach not only to the College but to other professional schools and research centers, most notably the Institute for Global Law and Policy (IGLP) at Harvard Law School, the Harvard University Center for the Environment (HUCE), the Weatherhead Center for International Affairs (WCFA), the School of Engineering and Applied Sciences (SEAS), and the Graduate School of Arts and Sciences (GSAS). These broad and diverse connections have powered the Program's whole range of activities, including many of our public events.

Invisible Worlds: Fukushima and the Legacy of Nuclear Forgetfulness



This international workshop, held on March 29, 2019, concluded the STS Program's multiyear NSF-funded research project on discourses of repair in the aftermath of the 2011 Fukushima Daiichi nuclear accident. It assembled panelists from around the world to discuss imaginaries of nuclear risk. Medical journalist **Hiroko Aihara** began the meeting by examining post-accident histories of discrimination and resistance, followed by commentary from **Makoto Takahashi** (Harvard STS). Panelists considered how nuclear dangers and inequalities escape visibility in complex technological societies, even in the aftermath of a catastrophic nuclear accident whose reverberations were, and still are, affecting nuclear risk management worldwide. Speakers included **Kyoko Sato** (Stanford), senior researcher on the NSF grant, **Ulrike Felt** (University of Vienna), and **Matthew Bunn, Denia Djokic, Sheila Jasanoff, and Sebastian Philippe** from the Harvard Kennedy School.

Multiple Carbons: Historical and Contemporary Approaches to Governance

On April 5-6, 2019, **Sheila Jasanoff** and STS Fellow **Stefan Schäfer** organized the first of a two-part workshop series. An interdisciplinary group of leading scholars in the social sciences and humanities discussed how the current state of climate politics came about, what obstacles we have run up against in trying to address climate change, and what other worlds we might imagine if we reframed climate change around a different set of parameters. Starting from the observation that climate politics today is constrained by a narrow focus on the carbon dioxide molecule as defined by science, the workshop led to a shared understanding that climate change compels us to pursue an ontological expansion that sets aside the "single carbon" framework of contemporary climate politics. Through the lens of "multiple carbons," we gain inspiration for overcoming the capture of global politics and international law by technical problem framings and can enable more inclusive, diverse, and expansive imaginations in responding to the climate crisis.



Photo (from right): Peter Haas, Dipesh Chakrabarty, David Wirth, and Maarten Hajer (Hilton Simmet in background)
Credit: Sheila Jasanoff

Speakers included, beside the organizers, **Dipesh Chakrabarty** (Chicago), **Peter Haas** (Amherst), **Maarten Hajer** (Utrecht), **Mike Hulme** (Cambridge, UK), **David Kennedy** (Harvard), **Doug Kysar** (Yale), **Timothy Mitchell** (Columbia), **Antoine Picon** (Harvard), **Miranda Schreurs** (Munich), and **David Wirth** (Boston College). The second workshop will take place on May 8-9, 2020 in Berlin. Contributions will be collected in an edited volume. "Multiple Carbons" is supported by a grant from Harvard's Solar Geoengineering Research Program.

Science and Democracy Network



Photo: 2019 SDN Meeting
Credit: Clark Miller

The 18th Annual Meeting of the **Science and Democracy Network (SDN)** was hosted by the STS Program at the Harvard Kennedy School, August 28 - 31, 2019. This year's meeting covered a wide range of topics including global economies in transition; new climates of citizenship; cross-border politics; changing imaginaries of self and belonging; and innovation and the politics of scale. The meeting also featured a roundtable on "Teaching the Ethics of Technology" and discussion of an SDN reader. SDN's global community included participants this year from Australia, Austria, Belgium, Canada, China, Denmark, France, Germany, India, the Netherlands, Singapore, Spain, Sweden, Switzerland, the United Kingdom, and the United States. On a somber note, the meeting also commemorated **Samuel Taylor-Alexander** (1984-2019), brilliant anthropologist, 2009 STS Fellow, and devoted SDN member; and **Yaron Ezrahi** (1940-2019), Gerstein Family Professor Emeritus of Political Science at the Hebrew University of Jerusalem. Yaron last visited the Harvard STS Program in April 2016 to participate in the Science and Democracy panel "The Elusive Demos: Democracy in the Digital Age."



Photos: Rob Hagendijk and Stephen Hilgartner
Credit: Clark Miller



Photo: Sebastian Pfotenhauer and Ulrike Felt debate a point
Credit: Clark Miller

This year's SDN also saw the further maturation of the Junior Council, a body that has been meeting informally for a few years. The Junior Council is working to determine how best to serve the career development needs of younger scholars in the Network. It also serves as the main conduit of ideas between early career SDN members and the Governing Council. Look for a report on their activities at the next SDN Meeting. Inaugural members of the newly formalized Junior Council are **Margo Boenig-Liptsin, Pierre Delvenne, Sam Weiss Evans, Sebastian Pfotenhauer, Kyoko Sato, and Mattijs van Maasakkers.**

The next SDN meeting will be held June 24-26, 2020 in Copenhagen.

International Extensions

An indicator of STS@Harvard's growing international imprint is the work our "graduates" are doing in the wider world, often in collaboration with other former Fellows. Here are some highlights of the year:

In February 2019, former STS Fellows and SDN members **Ben Hurlbut** (ASU), **Shobita Parthasarathy** (U Michigan) and **Sebastian Pfotenhauer** (TU Munich), with additional STS colleagues, hosted a German-American research conference on "Technoscientific Constitutionalism: Exploring the Intersections of Science, Technology, and Constitutional Order." Building on the STS Program's seminal work on **bioconstitutionalism**, along with critical legal studies and infrastructure politics, the conference interrogated how science and technology frequently cut to the heart of social, political and legal categories. Funded by a joint grant from the U.S. National Science Foundation (NSF) and the Deutsche Forschungsgemeinschaft (DFG), the 2.5 day conference was held in Washington, D.C at the Arizona State University's Barrett O'Connor Washington Center. The conference brought together 50 scholars from STS, law, anthropology, sociology, history, politics, and public policy from Germany, the US, and other countries. It featured keynotes by **Sheila Jasanoff** (Harvard Kennedy School) and **Alfred Nordmann** (Technische Universität Darmstadt). Policy practitioners from the OECD and elsewhere, as well as representatives from both the NSF and DFG and science attaché of the German Embassy, Christian Joergens, participated.

Chapter authors (pictured right) for the NSF-funded grant to look at traveling imaginaries of innovation met in Berlin in early July to discuss the volume emerging from this project. A two-day meeting, generously hosted by the Robert Bosch Academy, proved both convivial and intellectually rewarding for those who could attend.

Former Harvard STS Fellows **Erik Aarden** (University of Vienna) and **Sebastian Pfotenhauer** (Technical University Munich), and longtime STS faculty affiliate **Ulrike Felt** (University of Vienna) kicked off a new collaborative research project "Making Europe through and for its research infrastructures" (METAFORIS) in Vienna in June 2019. Drawing on theoretical resources developed at STS@Harvard, the project investigates the co-production of processes of scientific and political integration in Europe by exploring how different generations of transnational European research infrastructures embody distinct visions for European integration, and how, conversely, these research infrastructures act as powerful vehicles to advance integration. The project is a collaboration between the research group Innovation, Society, and Public Policy (ISPP) at the Munich Centre for Technology in Society (MCTS) of TU Munich and the Department of Science and Technology Studies at the University of Vienna. Jointly funded by the Austrian Wissenschaftsfonds FWF and the German Deutsche Forschungsgemeinschaft (DFG), the project runs from January 2019 to June 2022.



Photo: (from left) Sebastian Pfotenhauer, Kyriaki Papageorgiou, Margo Boenig Liptsin, Sheila Jasanoff, Alex Wentland, Hilton Simmet, Stefan Schäfer, Joakim Juhl, Luise Ruge.

The Innovation, Society & Public Policy group at MCTS/TU Munich may have set a new networking record by gathering 6 present or former STS@Harvard Fellows within a single research group (**Nina Frahm, Mascha Gugganig, Sebastian Pfotenhauer, Luise Ruge, Makoto Takahashi, Alexander Wentland**).

Training and Curricular Activities

Summer School on Expertise, Trust and Democracy



Photo: Members of the Harvard STS Summer School
Credit: Clark Miller

The Harvard STS **Summer School on “Expertise, Trust and Democracy,”** funded by a grant from the Hewlett Foundation, took place August 11-17, 2019. It featured lecturers and guests from the Science and Democracy Network and the greater Boston/Cambridge STS community, as well as international experts.

The Summer School hosted 24 students at the Harvard University Center for the Environment to learn about STS approaches to such topics as controversy studies, standardization, and law and expertise. Illustrative cases included nuclear power, climate change, GMOs, nanotechnology and autonomous vehicles. The workshop arranged an afternoon field trip to MIT, where presentations by Media Lab researchers showed students

how questions of ethics arise at the cutting-edge of technological development. During the weeklong event students heard from a number of scholar-practitioners—such as **James McCarthy** (former co-chair of an IPCC Working Group), **Alondra Nelson** (Social Science Research Council/Institute for Advanced Study), and **Gina McCarthy** (former administrator of the U.S. EPA). Award-winning Italian filmmakers **Vito Margiotta** and **Alice Tomassini** presented their current project on “Deep Fake,” which included footage of experts discussing the implications of a technology that can artificially create copies of nearly anyone’s voice and facial movements. Prominent science journalists discussed how the digital age has complicated the task of public truth-telling. Students reflected on topical issues in light of readings of key works assigned by the STS faculty. On Friday, students presented projects informed by their exposure to key STS concepts and methods during the week. The event was a resounding success and the organizers will carry forward this pilot project with Summer Schools planned for the next two years.



Photo: Jim McCarthy discusses environmental policy.



Photo: Members of the STS Summer School organizing committee. Credit: Clark Miller.

Training and Curricular Activities

Secondary Field in STS

Each year, the STS Graduate Secondary Field matriculates people who have successfully completed the requirements with a capstone presentation or talk in the STS Circle. The 2019 crop of graduates included **Olga Breininger-Umetayeva**, **Whitney Robles**, and **Joseph Vitti**.

Visit our [website](#) to read about some of our students' experiences with the Secondary Field.

Ninth Annual STS Undergraduate Essay Contest

The annual STS Undergraduate Essay Contest recognizes original, independent research in STS at the undergraduate level for students in any field at Harvard. STS Fellows carefully read and evaluate each submission, and award three prizes. This year's competition featured several dozen submissions.

Belen Mella (Social Studies '19) was awarded the STS Undergraduate Prize for her thesis chapter, "Selling the Self: Genetic Ancestry Tests and the Commodification of Identity (Chapter III: Prosumers)." **Julia Fine** (History & Literature '19) was awarded an honorable mention for her thesis chapter, "Growing British India: The Colonial Biopolitics of the Potato." **Matt Hoisch** (Environmental Science and Public Policy '19) also received an honorable mention for his thesis chapter, "Imagining Carbon Neutrality and Imagining Cities."

To see the winners discuss the relationship between STS and their prize essays, click [here](#).

STS Circle

The STS Circle continues as before to draw speakers and audiences from the entire Cambridge STS community and beyond. The Circle greatly benefits from its association with the Weatherhead Center for International Affairs (WCFA), which supports the series with funding and space. This year's Circle talks were again held at Center for Government and International Studies (CGIS). Speakers often comment on the luxury of having a full hour of discussion following their talks, while a perennially full room, sometimes with standing room only crowds, attests to the abiding popularity of the presentations. This year, the Circle hosted a number of capstone lectures by STS Secondary Fielders, alongside talks by new faculty arrivals and postdoctoral researchers at Harvard and MIT.

The complete STS Circle program is [available here](#).

CURRENT FELLOWS

Denia Djokic

Postdoctoral Research Fellow
Project on Managing the Atom,
Belfer Center for Science &
International Affairs

Sam Weiss Evans

Senior Fellow
Program on Science, Technology
and Society

Karen Huang

Ph.D. Candidate
Organizational Behavior, Harvard
University

Christopher Lawrence

Postdoctoral Research Fellow
International Security Program
and Project on Managing the
Atom, Belfer Center for Science
and International Affairs

Tara Mahfoud

Research Associate
Global Health and Social
Medicine, King's College London

Zara Mirmalek

Senior Fellow
Program on Science, Technology
and Society

Other Updates

Director's News

In the summer of 2019, Sheila Jasanoff was appointed Fellow at the Berlin-based Robert Bosch Academy. There, she pursued her research on the ethics of gene editing and other emerging biotechnologies, as well as on the traveling imaginaries of innovation project. Her public service and speaking engagements reflect the growing topical and geographical reach of STS@Harvard. In 2019, she served on the International Advisory Board of the new NTU Institute of Science and Technology for Humanity (NISTH) in Singapore, as well as on advisory committees in Canada, France, Malaysia, and the Netherlands. In September 2019, she spoke at the Vatican-organized conference [The Common Good in the Digital Age](#), which included [an audience with Pope Francis](#).



Photo: Sheila Jasanoff meets Pope Francis.
Credit: Servizio Fotografico Vaticano

International Visitors

The STS Program hosts a number of international short-term visitors. This year's guests included Professor **Ulrike Felt** (University of Vienna), who participated in the Fukushima workshop, and **Sebastian Pfotenhauer** (Technical University Munich).

Undergraduate STS Organizing

This fall, Kelsey Ichikawa, Raj Gambhir, and Juile Chung created **Harvard Undergraduate Critical Approaches to Science and Technology (HUCAST)**. This student group provides an inclusive, low-barrier space for discussion about the complex intersections of science, technology, politics, and culture. HUCAST aims to connect undergraduates across different departments and fields who share an interest in critically examining how technoscience operates in society. HUCAST's first event was an "Intro to the Social Studies of Science" advising and information session, featuring panelists Anna Jabloner, Hilton Simmet, and Michaela Thompson, who spoke about their pathways into science studies and the value of STS perspectives.

FELLOWS cont.

Lina Pinto-García

Ph.D. Candidate
Science and Technology Studies,
York University

Christian Ross

Ph.D. Candidate
Center for Biology and Society,
Arizona State University

Kyoko Sato

Associate Director
Program in Science, Technology,
and Society, Stanford University

Stefan Schäfer

Scientific Project Leader
Institute for Advanced
Sustainability Studies, Potsdam

Kasper Hedegaard Schjølin

Visiting Postdoctoral Fellow
Program on Science, Technology
and Society

Shelly Simana

S.J.D. Candidate
Harvard Law School

Governance of Sociotechnical Transformations (GoST)

Following initial administrative delays, the Harvard component of the GoST project, funded by the multinational Transformations to Sustainability (T2S) research program, began in earnest in 2019. The project focuses on transformations in three areas of crucial relevance to sustainable development, relating in particular to pressing imperatives in countries of the Global South: energy systems, agriculture, and urban digital infrastructures. Each involves intricate North-South linkages that need to be better understood for global sustainability efforts. Managed by Project Leader **Silke Beck** and Co-Principal Investigators **Sheila Jasanoff** and **Andy Stirling**, GoST held a number of meetings to refine the research protocol and begin systematic data collection. A workshop organized by the Indian partner, **Leo Saldanha** of ESG India, is planned for January 2020.

Traveling Imaginaries of Innovation

This continuing grant from the US National Science Foundation is supporting a comparative study of the implementation of innovation policies in about ten cities around the world. Project co-leaders **Margo Boenig-Liptsin** and **Sebastian Pfotenhauer** collaborated with PI **Sheila Jasanoff** and RA **Hilton Simmet** to host an authors' workshop in Berlin in July 2019. Authors met to discuss important points of convergence and divergence across the case studies. An edited volume looking at the uptake of the Silicon Valley model of innovation in each of the project cities is currently in preparation and is expected to be completed in 2020.

Ethics in the Lab: A Novel Collaboration for Technology Governance

Professors **Sheila Jasanoff** (Harvard STS) and **L. Mahadevan** (Harvard Paulson SEAS) are collaborating to create a new and generative model for integrating path-breaking work in technological design with informed reflection on its potential ethical, legal and social implications. The project is expected to promote real-time interaction between tech designers and analysts of tech practice in an exchange format that is original and innovative. Special efforts are being directed toward developing a novel curriculum to bring students from STEM and non-STEM concentrations to learn STS concepts together at the undergraduate and graduate levels. The project has generated an undergraduate course to be taught at SEAS in the spring of 2020.

FELLOWS cont.

Hilton Simmet

Ph.D. Candidate
Public Policy, Harvard Kennedy School

Geneva Smith

Ph.D. Candidate
Anthropology, University of New Mexico

Jessica Tatchell

Ph.D. Candidate
Global Health and Social Medicine, King's College London

Gili Vidan

Ph.D. Candidate
History of Science, Harvard University

RESEARCH ASSOCIATES

Margarita Boenig-Liptsin

Research Associate
Program on Science, Technology and Society

Michael Aaron Dennis

Professor of Strategy and Policy
U.S. Naval War College

Fellow Milestones

Antony Adler (2015-2016) celebrated the publication of his book, *Neptune's Laboratory: Fantasy, Fear, and Science at Sea*, by Harvard University Press.

Alberto Aparicio (2017) completed his Ph.D. in Science and Technology Studies at University College London in August 2019.

Elizabeth Barron (2012) began a new position as Associate Professor of Human Geography at the Norwegian University of Science and Technology (NTNU) in August 2019.

Jeremy Baskin (2016) published a much revised monograph of his dissertation in 2019 -- *Geoengineering, the Anthropocene and the End of Nature* (Palgrave Macmillan). He is employed as a Senior Research Fellow at the School of Government, University of Melbourne.

Rachel Biderman (2009) is working on the interaction of scientific, government, and private sectors and NGO communities in the implementation of Brazil's climate policies and targets.

Arthur Daemmrich (2000) started a new project on 19th-century technology and employment. He recently published: "Technology and Employment: Pin making and the first industrial revolution's long tail," Medium.com (25 March 2019). <http://bit.ly/2ULCuw8>

Laurence Delina (2013-2016) joined the faculty of the Division of Environment and Sustainability, Hong Kong University of Science and Technology, and published two monographs on climate action.

Gabriele Dorte (2014) is a postdoctoral researcher and teacher since May 2019 at the Catholic University of Lille, in "Ethics, Technology and Transhumanism."

Adrian Ely (2004) continues his work at SPRU, University of Sussex, as Reader in Technology and Sustainability and Director of Training. He recently started new projects on UK-China

collaboration to address anti-microbial resistance and the governance of genome-editing in European agriculture.

Sam Weiss Evans (2009-2011, 2016-2018, 2019-) moved back to Harvard after a year at the University of Cambridge's Centre for the Study of Existential Risk. He is working with Sheila on a grant to study "Ethics in the Lab" and building up the STS curriculum at Harvard's School of Engineering and Applied Sciences.

Paulo Fonseca (2014) was hired as Professor of Humanities at the Institute of Science, Technology and Innovation, Federal University of Bahia, Brazil.

Shuang Frost (2018-2019) was awarded an EDUFI scholarship by the Finnish government to visit the Consumer Society Research Centre at University of Helsinki from April to June 2019. As a 2019 Harvard Horizons scholar, she delivered a talk entitled "Human Agency on Digital Platform" at the annual Harvard Horizons symposium in April 2019.

Alissa J. Haddaji (2017) completed her PhD in Human and Social Dimensions of Science and Technology from Arizona State University, on the topic of International Planetary Defense.

Kamilla Karhunmaa (2017-2018) is developing STS and environment teaching at the University of Helsinki and organizing a new seminar series as part of the STS Helsinki research collective.

Christopher Kirchhoff (2005-2006) spent the past year helping Eric and Wendy Schmidt found their new philanthropy, Schmidt Futures. He is also serving as a senior advisor to the National Security Commission on Artificial Intelligence. The *New York Times* recently published his op-ed, "Silicon Valley Must Go to War."

Allison Loconto (2018) will join the new Collegial Direction of the Interdisciplinary Laboratory for Science, Innovation and Society (LISIS), located on the campus of the newly formed

Fellow Milestones

Université Gustave-Eiffel in Paris-Est, on January 1, 2020 as a Co-Director with David Demortain and Douglas Robinson. She was recently awarded a grant from the French Development Agency to lead action-research with AfrONet on “Institutional Innovations for Organic Agriculture in Africa.”

Finally, she published two articles this fall:

Loconto, A. and R. Rajaõ. 2019 “Governing by models: exploring the technopolitics of the (in) visibilities of land” *Land Use Policy*. DOI: 10.1016/j.landusepol.2019.104241

Loconto, A. and Fouilleux, E. 2019. “Defining agroecology: Exploring the circulation of knowledge in FAO’s Global Dialogue.” *International Journal of the Sociology of Agriculture and Food*. Vol 24(2): 1-24.

Mattijs van Maasakkers (2012-2013)

chaired the undergraduate program in City and Regional Planning serving about 125 students at Ohio State University this academic year. Two co-authored articles are forthcoming in the *Journal of Urban Affairs* and the *Journal of the American Planning Association*.

Luca Marelli (2014) is working at the Centre for Sociological Research (CeSO), KU Leuven, on a Marie Skłodowska-Curie Fellowship project on the imaginaries, politics and policies of data-intensive biomedical innovation in the European Union.

Ian McGonigle (2013-2014) joined the Sociology faculty at Nanyang Technological University in 2018 as part of the prestigious Nanyang Assistant Professorship scheme which aims to bring elite faculty to Singapore. His Harvard dissertation, “Genomic Citizenship,” was awarded the Association for Middle East Anthropology’s 2018 dissertation award for work judged to provide the most significant and potentially influential contribution to Middle East anthropology.

Zara Mirmalek (2019-2020) will mark the publication of her book, *Making Time on Mars*, this spring by MIT Press. Last summer she completed the second of two ocean research cruises to investigate a multi-institutional goal of using NOAA’s telepresence apparatus for ocean science

to develop NASA’s future human-robot space exploration. The 2019 cruise led to reconfiguring scientists’ communication practices to account for delay between distributed science teams.

Jacob Moses (2015-2017) received a 2018–2019 Graduate Research Fellowship at the Edmond J. Safra Center for Ethics at Harvard University. This fellowship supported his doctoral dissertation examining the ethics of medical innovation and the affective management of medical harm.

Ehsan Nabavi (2016-2017) continues as a Research Fellow at the Autonomy, Agency and Assurance Innovation Institute at the Australian National University (ANU). He is teaching in an experimental master’s program at ANU to develop, test and iterate a curriculum for the management of artificial intelligence. Ehsan’s academic journey from civil engineer to sociologist and AI researcher was recently documented in a profile in [Nature](#).

James Parker (2017) co-curated the second iteration of an exhibition entitled “Eavesdropping” at City Gallery, Wellington (NZ). Full details are here: <https://citygallery.org.nz/exhibitions/eavesdropping/>. This project also yielded a book: <https://shop.perimeterbooks.com/products/eavesdropping-a-reader>. James will be receiving a 2019 Discovery Early Career Researcher Award from the Australia Research Council for a 3-year project entitled “The Law and Politics of Machine Listening.”

Shobita Parthasarathy (2000), together with Jack Stilgoe (University College London), launched a new STS podcast, *The Received Wisdom*. In each episode, Shobita and Jack talk about science and technology-related stories of the day and feature an interview with a leading scholar or practitioner working at the intersection of science, technology, policy, and society. Episodes are aired every 6 weeks or so. It is available on Apple, Google, Stitcher, Spotify, and Pocket Casts. You can also listen (and get transcripts of episodes and additional readings) at <http://thereceivedwisdom.org>.

Fellow Milestones

Aleksandar Rankovic (2015) co-authored the *Atlas de l'Anthropocène* (Presses de Sciences Po, in French), with a foreword by Jan Zalasiewicz and an afterword by Bruno Latour.

Krishanu Saha (2009) was promoted to Associate Professor at the University of Wisconsin-Madison and is Co-Chair of the Steering Committee, National Institutes of Health's Somatic Cell Genome Editing Consortium.

Kasper Schiølin (2016-2020) published an article, "Revolutionary dreams: Future essentialism and the sociotechnical imaginary of the fourth industrial revolution in Denmark" in *Social Studies of Science*, and a related op-ed, "The revolution from above" in the South African news outlet *Daily Maverick* (coauthored with former fellow **Jeremy Baskin**).

Holger Strassheim (2014) accepted a position as Full Professor of Political Sociology at the Faculty of Sociology at Bielefeld University in April 2018. He recently co-edited the *Handbook of Behavioural Change and Public Policy* (Edward Elgar Publishers) with **Silke Beck** from the Helmholtz Centre for Environmental Research in Leipzig. As one of the expert contributors and as Steering Committee Adviser at the Joint Research Center of the European Commission, Holger was involved in the EU Report "Understanding our Political Nature" (July 2019). Holger is a member of the Ethics Commission at Bielefeld University and was elected board member of the Institute for Interdisciplinary Studies of Science (ISOS), where he is a coordinator of the international Master's program on science and society.

Maayan Sudai (2017) started a new job as Assistant Professor of Law and of Women and Gender Studies at the University of Haifa (Israel). She has also started directing the law and policy project at Harvard GenderSci Lab (<https://genderscilab.org/people>).

Mylène Tanferri (2015) is a junior researcher in Dominique Vinck's project "La patrimonialisation du direct. Sonoriser, filmer

et monter la performance scénique à l'ère du numérique" at Lausanne University. This project explores how heritage is shaped in and through media productions and uses conversational and multimodal analysis to observe the situated work of video production.

Samantha Vanderslott (2015) secured a grant as Co-PI from the New Venture Fund for a research and engagement project about the past and present challenge of typhoid fever. As part of this project, she organized an international workshop, edited a special supplement for the journal *Clinical Infectious Disease*, and published a number of articles and media stories. Together with Co-PI Dr. Claas Kirchhelle, a medical historian, she is launching a 2020 exhibition called "Alice in Typhoidland" in the UK, US, and in typhoid endemic countries. For more information see: www.typhoidland.org.

Gili Vidan (2014-) was awarded the 2019-2020 Ambrose Monell Foundation Fellowship in Democracy and Technology from the Jefferson Scholars Foundation. Her co-authored article (with Vili Lehdonvirta), "[Mine the gap: Bitcoin and the maintenance of trustlessness](#)," was published in *New Media & Society*.