



## **Opening of Science Diplomacy Week Open Forum**

Monday, May 16, 2022, 1:30 PM - 2:45 PM  
Palais des Nations - library

Taking the pulse of Science Diplomacy in International Geneva - making the link to the new geopolitical situation



## **Climate governance and the link between scientific information and decision making**

Tuesday, May 17, 2022, 10:00 AM - 11:15 AM  
WMO - Salle Obasi

This open forum session will be split in two parts: First a presentation by Petteri Taalas on recent WMO and IPCC reports on climate and mitigation. Second a presentation by Michel Jarraud on the "climate dimension of International Geneva".

### **About the Speaker**

**Petteri Taalas:** Professor Petteri Taalas has been the Secretary-General of WMO since 1 January 2016. He was appointed by the World Meteorological Congress in 2015 for a first four-year term. He is now serving his second four-year term (Jan 2020-Dec 2023)

**Michel Jarraud:** Mr Jarraud served as Chair of UN Water from 2012 to 2016. Before joining the WMO Secretariat as Deputy Secretary-General in January 1995, Mr Jarraud devoted part of his career to the European Centre for Medium-Range Weather Forecasts (ECMWF): From 1978 to 1985, he was a researcher in numerical weather, then Director of the Operational Department in 1990, before being nominated Deputy Director of the Centre in 1991.



## **AI as a tool for diplomacy and mediation**

Tuesday, May 17, 2022, 1:30 PM - 3:00 PM  
IHEID - Petal 5 - Conference Centre C1

This session discusses the current and potential future uses of AI as a tool in diplomatic practice and peace mediation. It details various applications of AI, in particular from the areas of natural language processing and image recognition. Three key questions are raised:

- 1) What tools have been developed and demonstrated as pilot projects and what is the impact on the work of diplomats and mediators?
- 2) How can conversations between diplomatic practitioners and developers of AI applications be facilitated in order to create tools that are needs-oriented?
- 3) Why is this an important conversation to have now and what are some of the current and future challenges?

#### About the Speaker

- Sameer Chauhan (Director at UN International Computing Centre)
- Dr Andreas Hirblinger (Postdoctoral Researcher, Center on Conflict, Development, and Peacebuilding, Graduate Institute, Geneva.)
- Dr Katharina Höne (Director of Research, DiploFoundation)
- Dr Jovan Kurbalija (Executive Director of DiploFoundation and Head of the Geneva Internet Platform (GIP))
- Jovan Njegić (Head of AI and Data Lab, DiploFoundation)



### **What Works to Span Science-Policy Boundaries in International Geneva?**

Tuesday, May 17, 2022, 4:00 PM - 5:30 PM  
IHEID - Petal 5 - Conference Centre C1

As COVID-19 and rampant climate change have shown, science is crucial to inform diplomatic exchanges and policymaking - from setting agendas to implementing policies. Switzerland and the international Geneva community have been creating opportunities for science to join the policy table and for policy to inform science for a long time, pairing knowledge and action for the common good. However, reflections and projects to harness this expertise and build a field of practice have only begun very recently. 'Boundary spanning' captures the essence of this field: it is the set of skills, knowledge and practices that actors develop to navigate the interface between science and policy.

Moving forward to professionalise the field of boundary spanning raises important questions: who spans boundaries in Geneva? And what can international Geneva learn and share from successful attempts and failures to align science and policy?

This session anchors these questions in the realities of the international Geneva ecosystem by providing an overview of actors and practices, inviting boundary-spanners from both academia and policy, and motivating reflections among the audience.

Session objectives:

- ❖ Share information on the knowledge and practices behind science-policy boundary-spanning
- ❖ Showcase actors and practices with and within the Geneva ecosystem
- ❖ Build a community of self-aware boundary-spanners

About the Speaker

- Prof. Pascal Peduzzi, Director GRID-Geneva (UNEP), Prof. at the UNIGE
- Dr. Mary McAuliffe, Head Migration Research Division, IOM
- Dr. Moira Faul, Executive Director, NORRAG
- Nicolas Seidler, Executive Director, Geneva Science-Policy Interface (GSPI)
- Maxime Stauffer, Senior Science-Policy Officer, Geneva Science-Policy Interface (GSPI)



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## **Human rights and neurotechnologies: towards an international legal instrument?**

Wednesday, May 18, 2022, 9:45 AM - 11:15 AM  
IHEID - Petal 5 - Conference Centre C1

New developments in neuroscience and neurotechnology give us unprecedented knowledge about the brain's functioning and open new possibilities for accessing, collecting, sharing and altering information from the human brain. Brain imaging techniques, brain-computer interfaces, transcranial and intracranial electrical stimulation and other technologies have great potential to improve the wellbeing of neurological patients by providing new diagnostic, preventive and therapeutic tools. However, these same technologies create potentially serious ethical and policy challenges to human rights and human dignity. After all, the brain is the organ most closely connected to our personality, thoughts, and memories. How can neurotechnological advances be made compatible with values such as freedom of thought, mental privacy, personal identity, and

mental integrity? What would be the appropriate policies to guarantee this compatibility? Should these values (which are embodied in the so-called 'neurorights') be protected by domestic and international law? Should we move towards the development of an International Declaration of Neurotechnology and Human Rights, as suggested recently by UNESCO?

About the Speaker

Assoc. Prof. Roberto Andorno

Faculty of Law & Institute of Biomedical Ethics and History of Medicine

University of Zurich (UZH)

Graduation at the Faculty of Law of the University of Rosario (Argentina). Doctoral degrees in law from the Universities of Buenos Aires (1991) and Paris-Est Créteil (1994), both on topics related to the ethical and legal aspects of medically assisted reproduction. Adjunct Professor of Civil Law at the University of Buenos Aires (1994-1998). Visiting Scholar at the Faculty of Philosophy of the Laval University, Quebec, Canada (1999). Humboldt Foundation Fellow at the Department of Medical Ethics of the University of Göttingen, Germany (2001-2002) and DAAD-Visiting Professor of Bioethics at the same University (2003). Postdoc Fellow at the International Centre for Ethics in Sciences, University of Tübingen, Germany (2004-2005). Member of the UNESCO International Bioethics Committee (1998-2005). President of the European Society for Philosophy of Medicine and Healthcare (ESPMH) (2014-2016). Currently: 'Privatdozent' of biomedical law and bioethics at the Faculty of Law, and Research Associate and Coordinator of the PhD Program Biomedical Ethics and Law (Medical Track) at the Institute of Biomedical Ethics and History of Medicine of the University of Zurich; Researcher for the EU Project "INTEGRITY" on the teaching of scientific integrity in Europe.

<https://www.ibme.uzh.ch/en/Biomedical-Ethics/Team/Research-Fellows/Roberto-Andorno.html>

<https://uzh.academia.edu/RobertoAndorno>

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**ICRC**

## **Engineering for Humanitarian Action and Global Health**

Wednesday, May 18, 2022, 1:30 PM - 2:45 PM  
IHEID - Petal 5 - Conference Centre C1

In this session participants will get to know the “Engineering for Humanitarian Action Partnership” - a cooperation between ETH Zürich, EPFL and the ICRC, which aims to harness science and technology for humanitarian action. The session is divided into three parts starting with an overview of the partnership, followed by showcasing two projects - presented by researchers and

ICRC staff directly involved in the respective projects and finally a short discussion of lessons learnt when it comes to building bridges between academia and humanitarian practice. After each presentation, time is reserved for questions from the audience.

#### About the Speaker

- Dr. Adina Rom/ Priya Mohanty, Program Manager EHA
- Max Löffel , PhD with Prof. Wagner, D-MTEC ETH Zürich
- Ruben Naval , Head of Global Supply Chain, ICRC
- Prof. Tuia Devis , ENAC ECEO Laboratory
- Thao Ton-That Whelan , Geodata Analyst, ICRC
- Dr. Gregoire Castella , Head of the Humanitarian Division at EssentialTech Center, EPFL



### **Preventing the misuse of emerging technologies: what can be done and which governance system to put in place?**

Wednesday, May 18, 2022, 1:30 PM - 2:45 PM  
GCSP- 4th floor conference room - P4-444

Rapid evolutions in the development of disruptive emerging technologies (synthetic biology, artificial intelligence and neuroscience among others) are giving rise to concerns over their potential misuses and malicious uses. These technologies' impacts on international security, privacy, democracy and society at large are among the chief concerns. The need for governance in this field is urgent. There therefore is a necessity to raise awareness about the best practices and governance systems which can help prevent the technologies' misuses and malicious uses. This discussion gathers a panel composed of the GCSP's three Polymath Fellows in synthetic biology (Dr Kevin Esvelt), artificial intelligence (Dr Sandra Scott-Hayward) and neurosciences (Dr Ricardo Chavarriaga) to discuss these issues.

#### About the Speaker

- Dr Sandra Scott Hayward: Sandra Scott-Hayward is a Senior Lecturer (Associate Professor) with the School of Electronics, Electrical Engineering and Computer Science, and a Member of the Centre for Secure Information Technologies at Queen's University Belfast (QUB). She began her career in industry and became a Chartered Engineer in 2006 having worked as a Systems Engineer and Engineering Group Leader with Airbus. Since joining academia, her research has focused on the development of network security architectures and security functions for emerging networks, specifically proposing security

designs and solutions for softwarized networks exploring machine learning and programmability. She received Outstanding Technical Contributor and Outstanding Leadership awards from the Open Networking Foundation in 2015 and 2016, respectively, having been elected and serving as the Vice-Chair of the ONF Security Working Group from 2015 to 2017. Amongst many other service memberships, she is an Associate Editor of IEEE Transactions on Network and Service Management. She is Director of the QUB Academic Centre of Excellence in Cyber Security Education (ACE-CSE), one of the first universities to be awarded this recognition by the U.K. National Cyber Security Centre. Sandra is a passionate advocate for interdisciplinary research and education.

- Dr Kevin Esvelt: Kevin Esvelt is director of the Sculpting Evolution group, which invents new ways to study and influence the evolution of ecosystems. By carefully developing and testing these methods with openness and humility, the group seeks to address difficult ecological problems for the benefit of humanity and the natural world.

Prior to joining the MIT Media Lab, Esvelt wove many different areas of science into novel approaches to ecological engineering. He invented phage-assisted continuous evolution (PACE), a synthetic microbial ecosystem for rapidly evolving biomolecules, in the laboratory of David R. Liu at Harvard University. At the Wyss Institute, he worked with George Church to develop the CRISPR system for genome engineering and regulation, and he began exploring the use of bacteriophages and conjugation to engineer microbial ecosystems.

Esvelt is credited as the first to describe how CRISPR gene drives could be used to alter the traits of wild populations in an evolutionarily stable manner. And recently, he and his Sculpting Evolution group devised a new form of technology, called 'daisy drives', which would let communities aiming to prevent disease alter wild organisms in local ecosystems.

By emphasizing universal safeguards and early transparency, he has worked to ensure that community discussions always precede and guide the development of technologies that will impact the shared environment.

- Dr Ricardo Chavarriaga: Ricardo Chavarriaga has more than 12 years of experience in research on human-machine interaction, brain-machine interfaces, and artificial intelligence. His work is focused on the responsible development of technologies that promote beneficial, humane interaction between human and intelligent machines.

Ricardo is the head of the Swiss office of the Confederation of Laboratories for AI Research in Europe (CLAIRE); Senior researcher at Zürich University of Applied Sciences (ZHAW) and associate fellow at the Geneva Center for Security Policy (GCSP). Dr Chavarriaga is also chair of the IEEE Standards Association industry connection group on Neurotechnologies for Brain-Machine Interfacing, and Subgroup Chair of the IEEE P2863 Working group on ecommended Practices for Organisational Governance of AI.

- Dr Jean-Marc Rickli: Dr Jean-Marc Rickli is the Head of Global and Emerging Risks at the Geneva Centre for Security Policy (GCSP) in Geneva, Switzerland. He is the co-chair of the NATO Partnership for Peace Consortium emerging security challenges working group and a senior advisor for the AI (Artificial Intelligence) Initiative at the Future Society. He is also a member of The IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems and represents the GCSP in the United Nations in the framework of the Governmental Group of Experts on Lethal Autonomous Weapons Systems (LAWS). He is

a member of the advisory board of Tech4Trust, the first Swiss startup acceleration program in the field of digital trust and cybersecurity. In 2020, he was nominated as one of the 100 most influential French-speaking Swiss by the Swiss newspaper Le Temps. Prior to these appointments, Dr Rickli was an assistant professor at the Department of Defence Studies of King's College London. Dr Rickli received his PhD and MPhil in International Relations from Oxford University, UK, where he was also a Berrow scholar at Lincoln College. His latest book published by Georgetown University Press is entitled *Surrogate Warfare: The Transformation of War in the Twenty-first Century*. He has lived and worked in Europe, USA, Middle East and China.



## **Facing Peaceful Futures in a World of Uncertainty: What Role for Technology and Science?**

Wednesday, May 18, 2022, 2:30 PM - 3:45 PM  
Online event

Digital technologies play an increasing role in efforts to prevent conflict and build peace. As part of data- and evidence-based approaches, they promise to generate new insights into the causes and dynamics of conflict, and options for conflict resolution. When it comes to anticipating and responding to future developments, such approaches aim to create more certainty about future events through predictive and forecasting methods. However, a growing number of initiatives also explores how technology may help guide the way towards peaceful futures by supporting peacekeeping, peacemaking, and peacebuilding activities in ways that can embrace uncertainty. This roundtable brings together scientists, scholars, and practitioners to shed light on applications of new technologies that may help engaging with, invoking, and facing peaceful futures in a world full of uncertainty. The participants will discuss how facing peaceful futures requires reconciling the world “as is” with the world that “could be” or “should be” through the skillful combination of scientific methods, hermeneutical sensitivity, and process-oriented facilitation. We will also point to the limits of human and machine cognition, the role of politics, and ethical challenges that arise through the increasing integration of human and machine capabilities in peacebuilding efforts.

### About the Speakers

- Andreas Hirblinger, Ambizione Research Fellow, CCDP
- Martin Wählisch, Political Affairs Officer, United Nations Innovation Cell
- Valerie Sticher, Senior Researcher, ETH Zurich & AI Singapore
- Kristoffer Lidén, Senior Researcher, Peace Research Institute Oslo (PRIO)

- Yasmeen al-Eryani, Director of Research, Sana'a Center for Strategic Studies and Analyst, Inklus
- Maurizio Pierini, Research Scientist, Experimental Physics Department CERN



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## **Info-Wars: On the Ethics of Crisis Communication**

Wednesday, May 18, 2022, 3:30 PM - 4:45 PM  
IHEID - Petal 5 - Conference Centre C1

The COVID-19 crisis unveiled an underlying tension in contemporary societies. In order to protect people rapidly and efficiently, governments started to adopt paternalistic strategies. Citizens' autonomy has been put off the table in two senses: 1. Through concrete limitations of personal freedoms (i.e. protective measures), and more importantly 2. Adopting a rapid decision-making style, focused primarily on efficiency rather than on democratic discourse and inclusion of a plurality of voices.

Is this tension between beneficence and autonomy justifiable? To which degree? What are the moral implications, and the practical outcomes, of not involving citizens in risk and crisis decision making processes? How do the definitions of fairness and participation change, in light of this tension?

Our aim for this session is to dissect this tension and its implication in one specific (and crucial) sector of risk and crisis management, i.e. risk and crisis communication. We will present, define, and discuss the concepts of 'active' and 'passive' social listening in risk and crisis communication, problematizing the moral implications as well as the practical outcomes, based on recent empirical evidence.

### About the Speaker

Nikola Biller-Andorno: Prof. Dr. med. Dr. phil. Nikola Biller-Andorno, MHBA, directs the Institute of Biomedical Ethics and History of Medicine, University of Zurich (UZH), Switzerland, a WHO Collaborating Centre for Bioethics. She leads the UZH Center for Medical Humanities as well as the PhD program "Biomedical Ethics and Law". Biller-Andorno is a member of both the Swiss Academy of Medical Sciences and the Swiss National Research Council and serves as Vice-President of the Clinical Ethics Committee of the University Hospital Zurich. A Past-President of the International Association of Bioethics, she is currently active as board member of the European Association of Centres of Medical Ethics and of DIPEX International. She held a Commonwealth Fund Harkness Fellowship and Visiting Professorship at Harvard University (2012-14) as well as a Fellowship at the Collegium Helveticum (2016-20), the joint Institute of Advance Studies of UZH, ETH Zurich and the Zurich University of the Arts. In 2018, she obtained a Master of Health Business Administration (MHBA). Since 2021 Nikola Biller-Andorno is Vice Dean Innovation and Digitalization of the UZH Medical Faculty.

Federico Germani: In 2019, Federico obtained his PhD title in Molecular Life Sciences from the University of Zurich, working on the molecular interplay between the innate immune system and cell growth in *Drosophila melanogaster*. In 2015, Federico completed his Master studies in cellular and molecular biology from the University of Milan, completing his thesis at the ETH Zurich. He studied the role of the WNK kinase in the regulation of cell growth and salt stress. Two years before he obtained his Bachelor Degree in Biology from the University of Milan. Because of his broad interests, he further studied International Relations at the University of London, obtaining his graduate diploma in 2018. During his PhD time, Federico also founded Culturico (in 2018), a rising cultural blog that discusses issues at the intersection between science and other disciplines, including politics and culture. Since 2020, Federico is a postdoctoral researcher at the IBME.

Giovanni Spitale: Giovanni Spitale, BA in philosophy and MA in philosophical sciences (Padova), with specialization on the bioethical aspects of blood, bone marrow and organ donations, is a PhD student and Research Data Manager at the Institute of Biomedical Ethics and History of Medicine, University of Zurich.

After his graduation he first worked as a high school teacher (philosophy and history). During the spring/summer semester 2017 he has been offered a visiting research fellowship at Institut für Medizinische Ethik und Geschichte der Medizin, Ruhr-Universität Bochum, where his main duties were bibliographical research and critical literature analysis for framing the end-of-life issue. In September 2017 he moved to Zurich, beginning his PhD and his employment as Research Data Manager for the DIPEX framework. He is currently working on interactive approaches to risk and crisis communication, with an eye to the underlying ethical issues (PubliCo). Giovanni is also directing the DIPEX international research team working on the experiences of COVID-19 survivors.



## **Digital transformation strategy for organizations and governments**

Wednesday, May 18, 2022, 4:15 PM - 5:30 PM  
IHEID - Petal 1 Level 2 - A1A

This session will explore the future of digital technology in the public sector, the issues and how to prepare for them, and offer insight into how to build a digital transformation strategy for organizations and governments.

Facing pressure to digitalize their processes and services, governments and organizations are exploring the potential of digital technologies. Progressively, the automation and lowering of data collection costs, the massive increase of available data, and the shift of many face-to-face human activities to the digital domain, have put data processing at the heart of modern public action, and allowed for more efficient and cost-effective service delivery. This digital imperative is combined with the participatory imperative already weighing on the construction, implementation, and

evaluation of public policies. Yet digital technologies raise many questions and challenges for governments and nonprofit organizations, from capacity building to their governance, regulation, ethics, and security.

#### About the Speaker

Flor Serale is a Digital Innovation Advisor - Digital Villages Initiative Asia Pacific at FAO and consultant at the Open Data Institute. For the past 10 years, Flor has worked in different roles at the Inter-American Development Bank in projects related to open data, digital transformation, urban development and public sector innovation across Latin America, at national and subnational level. She also worked as a consultant for the government of Buenos Aires and supported the design of the open data strategy.

Gianluca Misuraca is an international policy advisor on Digital Governance, Technology-Diplomacy, Strategic Foresight and Social Innovation. Among his main assignments, he is currently leading the European Commission's Service for Foreign Policy Instruments (FPI) funded facility support project for establishing an "International alliance for a human-centric approach to Artificial Intelligence" (IA-AI). Gianluca is also a Senior Research Associate at the Department of Design of Politecnico di Milano and a Research Fellow at the Department of eGovernance and Administration of Danube University Krems.

Jérôme Duberry is the director of the new Executive Education program on the digital transformation of organizations and governments. He is also a Senior Researcher at the Albert Hirschman Center on Democracy (AHCD) and at the Centre for International Environmental Studies (CIES). His research activities focus on the use of digital technologies, including artificial intelligence, by civil society in the context of democratic processes and environmental governance. In his latest book on AI and Democracy, Jérôme explores the growing use of AI at various levels of the citizen-government relation and calls for an innovative, human-centric governance of AI based on risk assessment that prioritises equality, freedom, human rights, and popular sovereignty.



### **Red Sea corals: when science and diplomacy converge to address climate change and regional stability**

Wednesday, May 18, 2022, 6:30 PM - 8:00 PM  
IHEID - Petal 1 Level 2 - A1A

While coral reefs are disappearing around the world, the Red Sea has recently embodied the true hope that at least one large coral ecosystem will survive global warming due to the exceptional resistance of its reefs to the rise of water temperatures. How can a regional and inclusive approach to preserving these coral reefs be taken when the Red Sea is at the center of geopolitical struggles

involving regional and international actors? Can science diplomacy foster engagement between scientists and policy makers to formulate and implement an environmental protection strategy at the scale of the entire Red Sea? It is the ambition of the newly created Transnational Red Sea Center at EPFL, with the support of the Swiss Ministry of Foreign Affairs, to capitalise on similar initiatives and address these questions. For the sake of coral reefs – and regional stability.

This panel discussion is organised in partnership with the Club Diplomatique de Genève and the Transnational Red Sea Center at EPFL as part of the Science Diplomacy Week.

Please note that this event can be joined online or in-person and will be recorded and made available on the Institute's YouTube channel.

#### About the Speaker

- Alexandre Fasel, Ambassador, Special Representative for Science Diplomacy, Federal Department of Foreign Affairs
- Anders Meibom, Director of the Transnational Red Sea Center, EPFL
- Yana Abu Taleb, Jordanian Director, EcoPeace Middle East
- Achim Wennmann, Director of Strategic Partnerships and Senior Researcher at the Centre on Conflict, Development and Peacebuilding, the Geneva Graduate Institute (moderator)

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DEVELOPMENT STUDIES

### **Swiss Alliance for PeaceTech : Integrating Expertise and Knowhow for Innovation at the Nexus of Science, Technology, and Peace**

Thursday, May 19, 2022, 2:00 PM - 3:15 PM  
IHEID - Petal 5 - Conference Centre C1

In a period of changing strategic landscapes, the nature of conflict is becoming increasingly multifaceted, dynamic, hybrid and protracted reaching many contexts across low, medium and high-income economies. Be that violence in the household, or urban violence or fully-fledged civil wars, conflict has many faces and with an impact in both physical and virtual worlds. Against this backdrop, the Swiss Alliance for PeaceTech builds a dual connection between ‘peace’ and ‘tech’. On the one hand, PeaceTech refers to the role of ‘technological innovation’ to enable more effective prevention, monitoring, containment, and resolution of violence and conflict. On the other hand, it refers to the role of ‘peace’ – in terms of principles, frameworks, capabilities and

objectives – in the design and development of technologies to prevent harmful consequences of technology on people, societies and the planet. The Swiss Alliance for PeaceTech aims to both bring about innovative technologies to promote peace and assist in new technology with ‘peace by design’.

After a brief introduction to the Alliance, we will present and discuss our first project: De-escalation of Online Polarization (DOP). Our ambition is to develop a system based on Artificial Intelligence (AI) able to assess the levels of online polarization (for instance, political, ideological and social), that cyber-users undergo within the isolated virtual networks where they potentially can get caught when they navigate (filter bubbles and echo chambers).

### About the Speaker

Annyssa Bellal is the executive coordinator at the Geneva Peacebuilding platform and an international lawyer with more than 18 years of experience in the area of conflict studies, both at the academic and policy levels, with a particular expertise on the issue of armed non-state actors. She also worked as a legal adviser for the Swiss NGO Geneva Call, the Office of the United Nations High Commissioner for Human Rights as well as the Swiss Department of Foreign Affairs. In 2011, she acted as the Head of the International Humanitarian Customary Law Project at the International Committee of the Red Cross. She has engaged directly with armed non-state actors in the field, notably in Syria, Iraq and the DRC. In 2019, she was invited to brief the UN Security Council on the occasion of the 70th anniversary of the 1949 Geneva Conventions, along with the President of the ICRC and the UN Under-Secretary-General for Legal Affairs.

Mariazel Maqueda López is the Head of the PeaceTech Division - EPFL EssentialTech Centre. After a lifetime of volunteering in the communities where she lived, she decided to travel to Kenya and volunteer in the slums of Nairobi under the guidance of the nonprofit organization Amani. This experience made her decide to professionally put her skills at the service of the most vulnerable people from that moment onwards, in what she would herself define as a "life epiphany". After this, she worked for three years for international nonprofit organisations in the field of sustainable development in Geneva (SéCoDev, Caritas Internationalis and B Lab Switzerland). In November 2020, she joined the EPFL EssentialTech Centre to kickstart its newly created PeaceTech Division. Since then, she leads the PeaceTech Division's activities to leverage in-house digital and physical tech-driven innovation to prevent violence and conflict and promote peace in the online and offline realms, with a special focus in fighting against technology-facilitated gender-based violence.

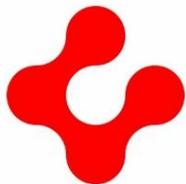
Jérôme Duberry is the director of the new Executive Education program on the digital transformation of organizations and governments. He is also a Senior Researcher at the Albert Hirschman Center on Democracy (AHCD) and at the Centre for International Environmental Studies (CIES). His research activities focus on the use of digital technologies, including artificial intelligence, by civil society in the context of democratic processes and environmental governance. In his latest book on AI and Democracy, Jérôme explores the growing use of AI at various levels of the citizen-government relation and calls for an innovative, human-centric governance of AI based on risk assessment that prioritises equality, freedom, human rights, and popular sovereignty.



## **Science-Diplomacy for water and peace**

Thursday, May 19, 2022, 4:00 PM - 5:30 PM  
IHEID - Petal 5 - Conference Centre C1

In 2017, the Global High-Level panel on Water and Peace published its report entitled “A matter of survival”. This document provides a set of recommendations for framing and further developing the agenda related to the use of water as an instrument for peace and cooperation. Water resources are the source of mounting pressures and tensions, however history also shows how powerful water resources can be for the establishment of regional cooperation framework. The science-diplomacy interface is a key aspect in such complex and critical setting. This session will therefore focus on how to equip diplomats to deal with such challenges, on how science can contribute and on how evidence-based approaches can contribute to reduce potential harm.



## **Across borders and disciplines: the future of multilateralism shaped by science**

Friday, May 20, 2022, 10:00 AM - 11:15 AM  
Campus Biotech - B1-06

In a quote attributed to Albert Einstein “crisis” is defined as “the greatest blessing for people and nations, because the crisis brings progress. [...] In the crisis that is inventiveness, discoveries and great strategies. [...]” Nowadays, this quote cannot sound more familiar in connection with the deepest crisis multilateralism went through since World War II. Indeed, if 2015 witnessed a successful phase for science-led multilateralism - among others, the SDGs agenda and the Paris Climate Accord were signed then - 2020 saw a series of key players withdraw from international conventions. The pandemic fomented a wave of isolationist agendas, disclosing a heightened vulnerability to the threat of misinformation. No event ever called for such a quick multilateral response driven by science as an instrument to identify solutions, contain threats and foster trust. That moment demonstrated with unprecedented clarity that “[...] The real crisis is the crisis of incompetence [...]” and urged for action across-disciplines and borders.

Is this not exactly the multilateral nature of education and science? Spotlights were turned on educators and scientists, not only limited to building knowledge, but also fostering collectivity against socio-economic, political and geographical divides. In 1955, would have Einstein imagined

such a blessing as a result of a crisis? Today, what would he identify as a scientific and technological progress contributing to shape the future of multilateralism? In this open talk, experts from different sectors and disciplines will be invited to take on the role of Einstein and address these questions. In the form of a dialogue, they will connect present examples and future challenges, brainstorming on how the multilateral nature of science will continue to benefit society.

#### About the Speaker

- Jacques Ducrest, Head of International Relations SERI (April 1st 2022 -)
- Jonas Brunshwig, CEO of Swissnex in India
- Solange Ghernaouti, Prof. University of Lausanne
- Sylwia Kostka, Program Coordinator QuantEra NET Co-fund in Quantum Technologies
- Norishige Morimoto, Chief Technology Officer and Vice President, IBM Research & Development Japan
- Charles Lim, lead Principal Investigator (PI) for the National Quantum-Safe Network (NQSN) of Singapore
- Grégoire Ribordy, CEO ID Quantique



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## **The boundary between science and social science Expertise in the age of Big Data: The anatomy of decision-making in a digitalized world**

Friday, May 20, 2022, 11:30 AM - 12:30 PM  
Campus Biotech - Atelier des Saveures

Scientific progress and information represent the new 'fuel' for authoritative decision-making and mark an important driver of power relations. Our society is driven by information and the digital component is what keeps information oxygenated by providing an important amount of data. Big Data seems to have drastically reduced the monopoly of social scientists to make sense of the social data. Yet, important questions remain unanswered. How much data represents enough information? How much information is necessary to produce knowledge? Who has the monopoly to make sense of the data? Why only certain data gets used for information purposes?

While both social scientists and (computer) engineers work with data, the boundary between science and social science is fading away. Technology promises to be the great equalizer, and

yet people designing AI solutions are often equally unaware of discriminatory biases. Scientists and engineers might end up doing more social harm in the name of good.

In light of the current state of affairs, this session delves deep into the dynamics of this 'oxygenation' process by attempting to trace the transformations of data into information and eventually, into knowledge navigating across the processes that affect the various actors producing, impairing and receiving information and un-packing the salient features of human expertise against the background of 'digital power.'

#### About the Speaker

Oana Ichim, is a lawyer. She worked as a Teaching Assistant, currently a postdoctoral researcher at the Global Governance Centre at the Graduate Institute of International and Development Studies. She previously worked as a Case Lawyer at the European Court of Human Rights and as a Programme Adviser at the Council of Europe, Directorate of Cooperation. At the Graduate Institute, she teaches a course called Technology, Society and Decision-making on the various manifestations of technology at societal level and the subsequent transformations with regard to decision-making, sustainability and ethics.

Her current research focuses on natural language processing methods for legal decision-making models and is part of a team working on the first comprehensive argument mining project of the decisions of the European Court of Human Rights, bringing together knowledge representation and data-driven approaches. Her PhD thesis was awarded the René Cassin Special Mention of the International Institute of Human Rights in 2019.



### **GESDA Situation Room Sneak Peek Co-Chairs of GESDA Task Forces give insights into their work - Key moments of the week - Participants reflections SD Week Closing**

Friday, May 20, 2022, 1:45 PM - 3:00 PM  
Campus Biotech - B1-06

Give an insight into GESDAs Solution Pathways methodology and dialogue opportunity with the high level academic and diplomacy Co-Chairs of the different Task Forces

#### About the Speaker

- Martin Chungong, Secretary General, Inter-Parliamentary Union (IPU), Diplomacy Co-Chair of GESDA Solution on Geneva Coalition of Anticipatory Science & Diplomacy
- Marga Gual Soler, Visiting Professor in Science Diplomacy, Universidad Nacional Autónoma de México (UNAM), young Global Leader of the World Economic

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- Anousheh Ansari, CEO, XPRIZE Foundation, Diplomacy Co-Chair of GESDA Solution on the Open Quantum Initiative
- Rüdiger Urbanke, Professor for Communication Theory at EPFL, Academic Co-Chair of GESDA Solution on Co-development, access & use of advanced AI