

Curriculum Vitae of

Thomas Bernauer

ETH Zurich

Center for Comparative and International Studies (CIS) and Institute of Science, Technology and Policy (ISTP)

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Education

- MA University of Zurich, 1988, Political Science, History, International Law
PhD University of Zurich, 1992, Political Science
Postdoc Harvard University, 1992-94: Postdoctoral Research Fellow, Center for Science and International Affairs, 1992–1993 (collaboration with Profs. Graham Allison, Ashton Carter, Steven Miller); International Environmental Institutions Fellow, Center for International Affairs, 1993–1994 (collaboration with Prof. Robert Keohane and Prof. Oran Young)

Positions

- 1988 – 1992 United Nations, Research Associate, UN Institute for Disarmament Research (UNIDIR), Geneva
1994 –1995 University of Zurich, Senior Lecturer, Department of Political Science
1995 – ETH Zurich, Professor of Political Science (International Relations), Department of Humanities, Social and Political Sciences (D-GESS), Center for Comparative and International Studies (CIS), Institute of Science, Technology and Policy (ISTP, from 2015), Institute for Environmental Decisions (IED, until 2014). Associate Professor (1999 – 2004) and Assistant Professor (1995 – 1999) at ETH Zurich.
2001 – 2002 University of Queensland, Australia, Visiting Professor, School of Political Science and International Studies

Academic Service and Extracurricular Activities

- 1998 - 2001 Swiss Political Science Review: Editor
2003 – 2004 ETH Zurich: Director of Studies, B.A. in Public Affairs
2003 – 2009 ETH Zurich / University of Zurich: Deputy Director of the ETH Zurich and University of Zurich Center for Comparative and International Studies (CIS) (2003-2005, 2009); Director of the CIS (2005-2009)
2004 – 2006 ETH Zurich: Head of Department (Dean), Department of Humanities, Social and Political Sciences

- 2004 – 2012 Swiss National Science Foundation (SNSF): member of the National Research Council and delegate of the SNSF for national research programs on right-wing extremism and benefits and risks of genetically modified organisms (2004-2012); member of the SNSF committee for international cooperation (2009-2010); President of Division IV of the SNSF (national research programs, NRP, and national centers of excellence, NCCR) (2011-2012).
- 2008 – Centre for the Study of Democracy, Aarau: Member of the governing board (www.zdaarau.ch)
- 2008 – Swiss Network for International Studies: Member of the governing board (www.snis.ch).
- 2009 – 2014 ETH Zurich: Director of Studies, MA Program in Comparative and International Studies (MACIS)
- 2009 – 2010
- 2013 – World Trade Institute (WTI), University of Bern: Member of the governing board
- 2010 – 2012 United Nations Environment Program (UNEP): lead author of UNEP's Global Environmental Outlook (GEO-5) report, Europe/climate policy
- 2012 – 2013 Non-North American Representative to the International Studies Association's Governing Council
- 2013 – 2015 Steering Committee, Swiss Competence Centers for Energy Research (SCCER)
- 2015 – Director of ETH Zurich's Institute of Science, Technology and Policy (ISTP), and Director of Studies of the ISTP's MSc program in Science, Technology and Policy
- 2015 – United Nations Environment Program (UNEP): coordinating lead author of UNEP's Global Environmental Outlook (GEO-6), regional assessment Europe, policy part

Awards/Honors/Scholarships

Scholarship for Prospective Researchers (postdocs), Swiss National Science Foundation, 1992-1994

American Political Science Association: Don K. Price Award 2005 for the best book on science, technology and environmental politics for "Genes, Trade and Regulation: The Seeds of Conflict in Food Biotechnology", Princeton University Press, 2003.

International Geneva Award 2012 („aims to encourage outstanding researchers and reward scientific publications that are particularly relevant for International Organizations“) for the article „Climate Change and International Water Conflict in Central Asia“ (Journal of Peace Research, 2012).

ERC Advanced Grant for project „Sources of Legitimacy in Global Environmental Governance“ (September 2012 – August 2017).

Professional Memberships/Regular Participation

International Studies Association (ISA)

Political Economy of International Organizations Conference (PEIO)

Swiss Political Science Association (SVPW)

American Political Science Association (APSA)
Environmental Politics and Governance (EPG) Conference
European Political Science Association (EPSA)

Editorial Boards and Reviewing

Editorial Board memberships in the past 10 years: Aquatic Sciences, British Journal of Political Science, Environmental Science and Policy, International Interactions, International Organization, Journal of Environment and Development, Review of Policy Research, Strategic Behavior and the Environment, Swiss Political Science Review, Zeitschrift für Internationale Beziehungen.

Reviewing in the past 10 years (selection): American Political Science Review, American Journal of Political Science, Aquatic Sciences, British Journal of Political Science, Business and Politics, Ecological Economics, Ecology and Society, Environmental Politics, Environmental Science and Policy, European Journal of International Relations, European Journal of Political Research, European Research Council, European Union Politics, Food Policy, Global Environmental Change, Global Environmental Politics, Hydrology and Earth System Sciences, International Environmental Agreements, International Interactions, International Organization, International Security, International Studies Quarterly, Journal of Environment and Development, Journal of European Integration, Journal of Peace Research, Journal of Politics, Journal of Public Policy, PNAS, Politische Vierteljahresschrift, Political Geography, Regulation and Governance, Review of Policy Research, Swiss National Science Foundation, Swiss Political Science Review, Zeitschrift für Internationale Beziehungen.

In addition, I have reviewed project proposals for various funding agencies, e.g. the European Research Council (review panel for ERC Consolidator Grants), the Swiss National Science Foundation, and the German Science Foundation (DFG).

Scientific and Leadership Profile

In his research and teaching Thomas Bernauer focuses on political and other conditions under which societal problems that extend beyond national borders can be solved (see <http://www.ib.ethz.ch>). Empirically, his work concentrates on environmental policy as well as international trade issues. He is the author/co-author of more than 80 articles in scientific journals, 11 books, more than 20 chapters in edited books (as of May 2016), and many contributions to newspapers and blogs.

Thomas Bernauer has studied international governance issues for the past 25 years, starting with PhD research on the global chemical weapons ban, research on nuclear and biological arms control, and involvement as a postdoc in projects, led by Profs Robert Keohane and Oran Young, on international environmental institutions. Most of his research has, since then, concentrated on explaining the determinants of international cooperation and its effectiveness, explaining differences in environmental policy and its effectiveness across countries and time, and public opinion with respect to environmental and trade issues. Two of the unique characteristics of research by Bernauer and his group at ETH Zurich are that it uses a broad combination of methods, including qualitative case studies, advanced statistical techniques, geographic information systems (GIS), experiments, surveys, and formal modeling to study key issues in international politics and global governance, and that it collaborates with natural scientists and engineers. On this basis, Bernauer has sought to move political science research on international environmental politics in particular from its traditional focus on qualitative case studies in a direction that connects more closely to international political economy and also to the natural and engineering sciences.

The following examples from Bernauer's work illustrate this research strategy:

- (1) Research on how political system characteristics affect variation in national climate change policies: one key finding of this work, which compares ca. 180 countries, is that democracies tend to suffer from greater gaps between policy-output (political commitment) and policy-outcomes (de facto contributions to problem solving) than non-democracies. This work was published in *International Organization*. Related work of Bernauer, published in *Ecological Economics*, shows that democracies perform better in reducing air pollution. Follow-up work was published in *Environmental Science & Technology*, *Environmental Science and Policy*, and other journals.
- (2) Research on the determinants of environmental monitoring in Europe: for this work, Bernauer and his team developed a geographic information system (GIS) that contains information on the location of several thousand active water quality monitoring stations in Europe. One key finding is that monitoring intensity is higher in water catchments exposed to greater environmental pressure, but that political and economic factors also play a strong role in monitoring choices. This work was published in *Water Resources Research*.
- (3) Research on what motivates countries to join global environmental agreements: this work combines theories of international cooperation and international policy-diffusion and has produced a large dataset to empirically explore a wide range of determinants of international environmental cooperation. Output of this work was, e.g., published in the *British Journal of Political Science*. Related work was published in the *Review of International Organizations*.
- (4) Development of new concepts and methods for evaluating the performance of international agreements: this work, which includes empirical applications to international water management, was published in *Water Resources Research* and the *European Journal of International Relations*.
- (5) Research on what causes differences in government regulation of biotechnology, and how government regulation and public opposition impact on scientific research in this area: the main outputs of this work were published in the *European Journal of Political Research*, *World Development*, *Transgenic Research*, and with *Princeton University Press*.
- (6) Research on how fundamental differences of interest between countries in global climate politics could be overcome. Output from this research was published in *Nature Climate Change*, *Global Environmental Change*, *European Union Politics*, the *Annual Review of Political Science*, *Ecological Economics*, and other journals.
- (7) Research on whether and how environmental degradation, induced by climatic changes or other factors, affects migration and the risk of violent conflict within and between countries. Output of this research was published, e.g., in the *Journal of Peace Research*, *International Interactions*, *Environmental Research Letters*, and *World Development*.
- (8) Research on the determinants of cooperation and conflict in international river basins. Output from this research was published in journals such as *Water Resources Research*, *Aquatic Sciences*, *Global Environmental Politics*, *Global Environmental Change*, and *Political Geography*.
- (9) Research on international trade disputes and public opinion concerning international trade. Output from this research was published in journals such as *European Journal of Political Research*, *British Journal of Political Science*, *International Studies Quarterly*, *Review of International Political Economy*, and *Global Environmental Politics*.
- (19) Research on factors that shape public opinion and individual behavior concerning climate change and climate change policy. This research involves survey experiments and field experiments in countries such as Brazil, China, Germany, India, the United States, and Switzerland. Output from this research was published in journals such as *Nature Climate Change*, *Global Environmental Change*, *Ecological Economics*, *Social Neurosciences*, *Psychoneuroendocrinology*, and other outlets.

Bernauer has, thus far, served as the main supervisor of 27 PhD students (completed) and as a committee member or co-advisor for 17 PhD students in Switzerland and abroad (completed).

He is currently the main advisor of 5 PhD students and 4 postdocs/senior researchers. Over the past decade, academic research grant funding of Bernauer's group has been in the order of CHF 250'000 per year. The main sources have been the SNSF and the EU/ERC.

In January 2012, Bernauer was awarded a European Research Council (ERC) Advanced Grant for a project entitled „Sources of Legitimacy in Global Environmental Governance“. This five year project started in September 2012 and will end in August 2017. According to the ERC, these Grants „allow exceptional established research leaders of any nationality and any age to pursue ground-breaking, high-risk projects that open new directions in their respective research fields or other domains.“

One of Bernauer's main academic service activities as of May 2016 is to start up ETH Zurich's new Institute of Science, Technology and Policy (ISTP). The mission of this institute is „To contribute to evidence-based and effective policy-making with regard to key societal challenges, such as urbanisation, the energy transition, digital society, and sustainable use of natural resources and the environment.“ (See www.istp.ethz.ch) The ISTP involves around 20 ETH professors from the natural sciences, engineering, and the social sciences. Bernauer currently serves as the ISTP Director and Director of Studies of the ISTP's MSc program.