

Curriculum Vitae

Galina Churkina

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EDUCATION

Ph.D. School of Forestry, University of Montana, USA, 1998.
Diploma Department of Mechanics and Mathematics, Moscow State University, Russia, 1990.

POSITIONS¹

2019 – present Visiting Scientist, Potsdam Institute for Climate Impact Research, Germany
2017 - 2019 Visiting Fellow, School of Forestry and Environmental Studies, Yale University, USA.
2010 - 2017 Visiting Scientist, Geography Department, Humboldt Universität zu Berlin, Germany.
2012 - 2016 Senior Fellow, Institute for Advanced Sustainability Studies, Germany.
2008 - 2010 Senior Scientist and Group Leader, Leibniz Centre for Agricultural Landscape Research (ZALF), Germany.
2004 - 2008 Senior Scientist and Group Leader, Max-Planck Institute for Biogeochemistry, Germany.
2007 Visiting Fellow, School of Natural Resources and Environment (SNRE), University of Michigan, USA.
2005 Visiting Fellow, Climate and Global Dynamics Division, National Center for Atmospheric Research (NCAR), USA.
1999 - 2004 Scientist, Max-Planck Institute for Biogeochemistry, Germany.
1998 - 1999 Post-Doctoral Fellow, Department of Plant Ecology, University of Bayreuth, Germany.
1995 - 1998 Research Assistant, Numerical Terradynamics Simulation Group (NTSG), School of Forestry and Conservation, University of Montana, USA.
1993 - 1994 Visiting Scholar, Department of Integrated Systems Analysis, Potsdam Institute for Climate Impact Research (PIK), Germany.
1991 - 1994 Research Associate, Laboratory of Ecological Modeling, Institute of Atmospheric Physics, Russian Academy of Sciences, Russia.

AWARDS AND RECOGNITIONS

2018 Elsevier Reviewer Recognition for Outstanding Contribution in Reviewing
2017 Article “Effect of VOC emissions from vegetation on air quality in Berlin during a heatwave” by Churkina et al. selected for the American Chemical Society (ACS) Weekly Press Release.
2016 Research Fellowship from the German Science Foundation (DFG);
Teaching Grant from the Commission for Equal Opportunities for Women, Humboldt Universität zu Berlin, Germany;
Article “The role of urbanization in the global carbon cycle” by Churkina G. selected for the weekly news section of the Institute of Advanced Sustainability Studies, Germany.

¹ Partial parental leave was taken from September 2002 until July 2003 and from April 2011 until October 2012.

- 2009 Article "Carbon stored in human settlements: the conterminous US" by Churkina et al. selected for the press-conference at the Fall Meeting of American Geophysical Union, San Francisco, USA.
- 2005 Article "Partitioning direct and indirect human-induced effects on carbon sequestration of managed coniferous forests using model simulations and forest inventories" by Vetter et al. selected as the "Best of 2005" paper of the CARBOEUROPE-IP project.
- 2007 Research Fellowship from the German Science Foundation (DFG).
- 1997 Student Participation Travel Award from the NATO Advanced Study Institute.
- 1996 Women of Distinction Award from Soroptimist International of the Americas.
- 1993 Research Scholarship from the Open Society Foundations;
Graduate Summer Program Grant for the Central European University, Hungary from the Open Society Foundations.

INTERNATIONAL SCIENCE SERVICE

Associated Editor of Urban Ecology specialty of the *Frontiers in Ecology and Evolution* since 2016.

Guest Editor of the Special Issue "Remote Sensing Based Urban Development and Climate Change Research" in *Remote Sensing* 2019.

Primary Co-Chair of the session "Urban Areas and Global Change" at the Fall Meeting of the American Geophysical Union since 2008.

Reviewer of Journals Nature Geoscience, Nature Climate Change, Scientific Reports (Nature), Global Environmental Change, Geophysical Research Letters, Global and Planetary Change, Global Biogeochemical Cycles, Global Change Biology, Climatic Change, Ecological Modelling, Environmental Science and Technology, Landscape and Urban Planning, Tellus.

Reviewer of Foundations & Programs European Commission, NASA Carbon Cycle Science Program (USA), NOAA Earth System Science Program (USA), National Science Foundation (USA), Natural Environment Research Council (UK), Academy of Science of Finland, IPCC, Norwegian-Polish Science Program.

Advisory Board 'Made of Air' GmbH (2016-present);
CARBOEUROPE Integrated Project (2004-2008).

Steering Committee COSMOS (network for climate and global ecosystem modeling) (2008-2010).

SCIENCE COMMUNICATION ACTIVITIES

Numerous pieces about our research have appeared in *Scientific American*, *Nature News*, *National Geographic News*, *Environmental Research Web*, *La Repubblica*, *Popular Science*, and *Conservation Magazine*.

Talking point article in *Environmental Research Web*: "Tomorrow's cities: a carbon jungle?"
<http://environmentalresearchweb.org/cws/article/opinion/39829>

Blogs on various topics related to urbanization: <http://blog.iass-potsdam.de/>.

WORKSHOPS ORGANIZED

- 2018 "Practical Aspects of Carbon Sequestration and Storage at Yale" as part of the seminar series on sustainable planning, design and construction at Yale University, USA. G.C. co-organized the workshop together with Alan Organschi, and Virginia Chapmann.
- 2016 "Review of Urbanization Science and Practice" hosted by the Institute for Advanced Sustainability Sciences (IASS), Potsdam, Germany. G.C. co-organized the workshop together with Manuel Rivera.

SELECTED INVITED PRESENTATIONS SINCE 2009

- 2019 "Future cities: How and where should they be build?", Hixon Center for Urban Ecology, Yale University, USA.
"Bauen als CO₂ Senke – Holzbau als Lösung" (in German) Tragewerksplanersymposium "Vision und Konstruktion", Berlin, Germany.
"Buildings as a global carbon sink", Northwest Institute of Eco-Environment and Resources, Chinese Academy of Science, Lanzhou, China.
"The science of the global carbon cycle", Northwest Institute of Eco-Environment and Resources, Chinese Academy of Science, Lanzhou, China.
- 2018 "The story of urban carbon", Research Seminar, School of Forestry and Environmental Studies, Yale University, USA.
"Building a global carbon sink", Potsdam Institute for Climate Impact Research (PIK), Potsdam, Germany.
- 2017 "A global carbon sink by construction and beyond", URBAN@YALE lab, Yale University, USA.
- 2016 "Effect of VOC emissions from vegetation on urban air quality during hot periods" European Geosciences Union Assembly, Vienna, Austria.
- 2015 "Climate and carbon of cities", Yale Center, Beijing, China.
- 2014 "Biosphere Models", Tuesday Talk Series, the Institute for Advanced Sustainability Sciences (IASS), Potsdam, Germany.
"Are cities important for the carbon cycle?", School of Forestry and Environmental Studies, Yale University, USA.
- 2013 "Land carbon cycle, managed ecosystems, and climate", the University of Budapest, Budapest, Hungary.
"Natural selection: Picking the right trees for urban greening", the 14th European Forum on Eco-innovation "Into clean air ... Delivering innovative solutions for mobility, energy, and ICT in cities", Prague, Czech Republic.
"Adaptation to climate change in cities", workshop "No-regrets: Pre-acting and Adapting to Climate Change in Cities", Berlin Senat, Berlin, Germany.
- 2011 "Urban ecosystems and carbon cycle", Institute for Advanced Sustainability Sciences (IASS), Potsdam, Germany.
- 2010 "Effects of nitrogen deposition, CO₂, climate, and land use change on the carbon cycle of Europe", ETH, Zürich, Switzerland.
"Impact of urbanization on carbon cycle and climate", University of Potsdam, Germany.
- 2009 "Urban carbon cycle" at the International Symposium "Cities and Carbon Management: Towards Enhancing Science- Policy Linkages", Tokyo, Japan

ADDITIONAL EDUCATION AND TRAINING

- 2017-2018 Teaching and Learning Lunches for Faculty, Yale Center for Teaching and Learning, New Haven, USA.
- 2016 Training Program in Participatory Leadership, "The Art of Hosting", European Forum Alpbach, Austria.
- 2016 Planning and development of lectures and courses, Deutscher Hochschulverband, Bonn, Germany
- 2008 Science communication workshop for scientists: "Communicating your science", AGU Fall meeting, San Francisco, USA.
- 2001 Training workshop for Junior Research Group Leaders within the Max-Planck Society, Jena, Germany.

- 1997 NATO Advanced Study Institute "Soils and Global Change: Carbon Cycle, Trace Gas Exchange, and Hydrology", Château de Bonas, France.
- 1996 Summer Colloquium on Terrestrial Ecosystems and the Atmosphere, National Center for Atmospheric Research (NCAR), USA.
- 1993 Graduate Summer Program, Department of Environmental Sciences and Policy, Central European University (CEU), Hungary.

LANGUAGES

English (fluent), German (fluent), Russian (native), French (basic).