

CURRICULUM VITAE

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EDUCATION

PhD	2009	University of Basel, Department of Plant Ecophysiology, Switzerland
MSc	2005	University of Basel, Switzerland & University of Vienna, Austria
B.S.	2004	Integrative Biology, University of Basel, Switzerland

PROFESSIONAL EXPERIENCE

Since February 2016	Assistant Research Professor, Center for Ecosystem Science and Society, Northern Arizona University, USA
2015	Research Associate, Center for Ecosystem Science and Society, Northern Arizona University, USA
2011-2014	Postdoctoral Research Associate and Network Coordinator, Department of Biology, University of Florida, USA
2010-2011	Postdoctoral Research Associate, Department of Botany and Microbiology, University of Oklahoma, USA
2005	Laboratory Assistant at the Department of Ecology and Ecosystem Research, University of Vienna, Austria
2004	Assistant at the Institute of Botany, Section Plant Physiology, University of Basel, Switzerland

SKILLS

Competencies:	Scientific network coordination, meeting and workshop organization, administrative and scientific support to the network lead, support and facilitation of information exchange between scientists, report writing, scientific paper writing, database synthesis and analysis
Computer:	R, Matlab, Dreamweaver, SigmaPlot, EndNote, MS Office
Languages:	English (excellent oral and written), German (first language), French (good oral and written)

SYNERGISTIC ACTIVITIES

SCIENTIFIC SESSION CHAIR

XI. International Conference on Permafrost: Session title: Climate Change and the Permafrost Carbon Feedback: Past, Present and Future, June 2016, Potsdam, Germany

Our Common Future under Climate Change. Session title: Biogeochemical Feedbacks to Climate Change, July 2015, Paris, France

Fall Meeting of the American Geophysical Union. Session title: Vulnerability of Permafrost Carbon to Climate Change, December 2013 – 2016, San Francisco, California, USA

General Assembly of the European Geosciences Union. Session title: Assessing the effects of global warming on permafrost degradation – contributions from field studies, remote sensing and modeling, April 2013, 2014, Vienna, Austria

General Assembly of the European Geophysical Union: Session title: Open session on permafrost, April 2013, 2014, Vienna, Austria

SCIENTIFIC STEERING COMMITTEE

XI. International Conference on Permafrost, 20-24 June 2016, Potsdam, Germany

6th North American Carbon Program Meeting, spring 2017

MEETING ORGANIZATION

Annual Meeting of the Permafrost Carbon Network: 2011-2016, San Francisco, CA, USA

Lead Meeting of the Permafrost Carbon Network: 2012-2016 (locations: St Pete Beach, FL; Captiva Island, FL; Stockholm, Sweden; Flagstaff, AZ; Potsdam, Germany)

REVIEWER FOR

Journals: Global Change Biology, Journal of Ecology, Ecosystems, Journal of Geophysical Research – Biogeosciences, Soil Biology and Biochemistry, Tree Physiology, USGS

Funding agencies: NSF, NASA, National Geographic, Deutsche Forschungsgemeinschaft (DFG)

Report: Snow, Water, Ice and Permafrost in the Arctic 2016, Chapter 3: Changing Permafrost and its Impacts.

TEACHING

Guest lecturer, 2016, Plant and Climate, Northern Arizona University, Flagstaff, AZ

Teaching Assistant in Ecophysiology, 2006 – 2009, University of Basel, Switzerland

Lecturer on carbon reserves, 2007, University of Basel, Switzerland

OUTREACH ACTIVITIES

Permafrost Carbon Network: 5-Year Synthesis Report (2015).

http://www.permafrostcarbon.org/documents/PCN_5_year_synthesis_report.pdf

Guest post for The Carbon Brief: What the latest science says about thawing permafrost.

<http://www.carbonbrief.org/blog/2015/04/guest-post-what-the-latest-science-says-about-thawing-permafrost/>

Short video about my science with permafrost carbon: http://www.climate-cryosphere.org/media-gallery/1058-frostbyte-c-schadel-2014?category_id=138

Speaker profile on 'Climate Voices- Science Speaker Network'. <http://climatevoices.org/speakers/christina-schadel/>

Member of the Communications Working Group for SEARCH: Study of Environmental Arctic Change: <https://www.arcus.org/search-program/communications-working-group>

Website design and maintenance:
<http://www.permafrostcarbon.org/>
<https://www2.nau.edu/schuurlab-p/>

IN THE NEWS

NAU-News, June 2016: <http://news.nau.edu/carbon-dioxide-biggest-player-thawing-permafrost/#.V30ry6LVRkk>

Climate Central, June 2016: <http://www.climatecentral.org/news/melting-arctic-could-supercharge-climate-feedback-20440>

Süddeutsche Zeitung, June 2016: <http://www.sueddeutsche.de/wissen/klimawandel-sprengsaetze-am-polarkreis-1.3053395?reduced=true>

NAU-News, March 2016: <http://news.nau.edu/biomass-offsets-little-none-permafrost-carbon-release/#.VxAtmHrVRG7>

The Daily Californian, October 2015: <http://www.dailycal.org/2015/10/06/berkeley-lab-scientists-create-model-map-permafrost-carbon-climate-feedback/>

Interview in 'Science Magazine', December 2012 <http://news.sciencemag.org/earth/2012/12/ticking-arctic-carbon-bomb-may-be-bigger-thought?ref=em>

University of Florida news: <http://news.ufl.edu/archive/2013/12/uf-researchers-experiment-is-first-to-simulate-warming-of-arctic-permafrost.html>

FUNDING

Climate and Cryosphere and World Climate Research Program: total funding of \$25,000 between 2013-2016 for workshop support for the Permafrost Carbon Network

International Arctic Science Committee: workshop support for the Permafrost Carbon Network of \$5'000 in 2012 and \$10'000 in 2015

US National Science Foundation: Pending proposal as principal investigator: Climate forcing impacts from greenhouse gas release when permafrost undergoes environmental changes: \$776'382

FELLOWSHIPS and TRAVEL GRANTS

2014	Climate and Cryosphere travel support to the 'Carbon Pools in Permafrost Regions' workshop and the Permafrost Carbon Network Leads meeting in Stockholm, 2014
2012	United States Permafrost Association's 2012 Travel Award (USD 500)
2012	International Arctic Research Centre (IARC) travel award (USD 2500)
2012	Permafrost Young Researchers Network, travel and conference participation award for Ticop in Salekhard, Russia
2004, 2005	Erasmus program for support of European co-operation and mobility, CHF 2,000 per year

MEMBERSHIPS

American Geophysical Union, European Geosciences Union, United States Permafrost Association

PRESENTATIONS (*first author only, last five years*)

- Schädel C** (2016) Carbon emissions and decomposability of permafrost. Biological Sciences Departmental Seminar, February 2016, Northern Arizona University, Flagstaff, AZ
- Schädel C** (2016) Carbon decomposability in permafrost. Invited keynote talk at the 8th Annual Meeting of the Permafrost Working Group of the German Society for Polar Sciences, Hamburg, Germany
- Schädel C et al.** (2015) Strategizing a Comprehensive Laboratory Protocol to Determine the Decomposability of Soil Organic Matter in Permafrost. Poster presentation. AGU Fall Meeting, San Francisco
- Schädel C et al.** (2015) Changing environmental controls affect the strength of the permafrost carbon feedback. Poster presentation, Our Common Future under Climate Change. Paris, France
- Schädel C et al.** (2015) Quantifying environmental controls on carbon release from permafrost. Poster presentation, 5th NACP Meeting, Washington, DC
- Schädel C et al.** (2014) Quantifying environmental controls on carbon release from permafrost. Oral presentation at AGU Fall meeting, San Francisco, CA
- Schädel C et al.** (2014) Circumpolar assessment of organic matter decomposability as a control over potential permafrost C loss with climate change. Oral presentation, CAPP meeting, Stockholm, Sweden
- Schädel C et al.** (2013) Quantifying the effect size of changing environmental controls on C release from permafrost soils. Poster at the AGU Fall meeting, San Francisco, CA
- Schädel C et al.** (2013) Circumpolar assessment of organic matter decomposability as a control over potential permafrost C loss with climate change. Poster presentation at the ASP Colloquium about Key Uncertainties in the Global Carbon Cycle, Boulder, CO, USA.
- Schädel C et al.** (2013) Circumpolar assessment of organic matter decomposability as a control over potential permafrost C loss with climate change. Oral presentation at EGU, Vienna, Austria
- Schädel C et al.** (2012) Pan-arctic permafrost C quality and vulnerability over time: A synthesis of long-term incubation studies. Invited talk at the AGU fall meeting, San Francisco, CA
- Schädel C et al.** (2012) Research Coordination Network of the Vulnerability of Permafrost Carbon. 10th International Conference on Permafrost, Salekhard, Russia
- Schädel C et al.** (2012) Vulnerability of permafrost carbon research coordination network. Poster at the EGU General Assembly Meeting, Vienna, Austria