

CV Gustaf Hugelius

Senior Lecturer (Universitetslektor) in Geographic Information Systems (GIS) and Geomatics with applications in Physical Geography, Dept. of Physical Geography, Stockholm University, Sweden

Research summary

My primary research expertise is on the stocks and turnover of carbon in soils and ecosystems. I have studied the interaction between soil organic matter turnover and ecosystem properties, with a particular focus on northern soils and peatlands, their vulnerability to environmental change and soil-climate feedback.

Professional positions

2018- 2019: Visiting Associate Professor (Blaustein Scholar), Dept. of Earth System Science, Stanford University, USA

2015- 2017: Visiting Scholar, Dept. of Earth System Science, Stanford University, USA

2015- : Senior Lecturer, Dept. of Physical Geography, Stockholm University

2011-2014: Researcher, Stockholm University

2011 (Feb. to Sep.): post-doctoral researcher, CryoCARB consortium

2011 Ph.D of Physical Geography, Stockholm University

Leadership in research projects

- Work package lead in EU H2020 Nunataryuk consortium, (2017-2021, 500 k€)
- Lead principal investigator and coordinator of the EU Joint Programming Initiative COUP-consortium (2014–2017; total budget 1400 k€)
- Swedish Research Council Marie Skłodowska Curie International Career Grant (2015–2017; 450 k€)
- Co-principal investigator of Moore Foundation Grant on the Global Methane Budget (Stanford University, 2016-2020)
- Co-principal investigator of the Swedish Research Council GAP consortium (2013–2017)
- Bolin Centre grant for managing the Northern Circumpolar Soil Carbon Database (33 k€)
- International Permafrost Association Action group (2012–2014; 5 k€)
- Transnational Access project of EU FP7 INTERACT (2011; 12 k€)

International networks and other scientific merits

- Core group of the *World Climate Research Programme* Grand Challenge “Carbon Feedbacks in the Climate System” (2016-...)
- Co-chair of the International Soil Carbon Network (2016-...)
- Scientific Steering Group of the International Soil Carbon Network (2012-....)
- Manager of the Northern Circumpolar Soil Carbon Database (2012-...)
- Leader of the “Soil Carbon Quantity” working group of the in the NSF Vulnerability of Permafrost Carbon Research Coordination Network (2011-2014) and the SEARCH Permafrost Carbon Network (2014-...)

PhD and MSc supervision

- Main supervisor of two PhD projects (one graduated) and co-supervisor of 3 PhD projects (one graduated).
- Main supervisor for ten M.Sc. degree projects.

Publication summary

Co-author of more than 50 papers in international scientific journals, including several papers in broad-interest interdisciplinary journals (e.g. Nature, Nature Climate Change, Nature Geoscience) and respected specialized journals in my field (e.g. Global Change Biology, Annual Reviews Ecology, Earth Science Reviews). International conference presentations: >100 co-authored, including invited presentations at the American Geophysical Union fall meeting. *Google Scholar Summary: ~2,200 citations, h-index: 21, i10-index: 30*