

## Curriculum Vitae for Docent Malin E. Kylander

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and the Bolin Centre for Climate Research,  
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### Degrees Awarded

- 2010: **Docent in Geochemistry**, Department of Geological Sciences, Stockholm University, Sweden
- 2002-2006: **PhD Environmental Geochemistry**, Department of Earth Science and Engineering, Imperial College London, UK
- 2000-2002: **MSc Applied Environmental Measurement Techniques**, Water Environment Technology, Chalmers University of Technology, Sweden
- 1995-1999: **BSc Honours Biology**, Department of Biology, McMaster University, Ontario, Canada

### Positions Held

- 2020- **Director of PhD Studies**, Department of Geological Sciences, Stockholm University, Sweden
- 2012- **Senior Lecturer in Chemical Sedimentology**, Department of Geological Sciences, Stockholm University, Sweden
- 2010-2012: **Forskarassistent/Researcher (Swedish Research Council Funded)**, Department of Geological Sciences, Stockholm University, Sweden
- 2007-2009: **Postdoctoral Researcher (Swedish Research Council Funded)**, Department of Geological Sciences, Stockholm University, Sweden
- 2007: **Postdoctoral Researcher**, Department of Geological Sciences, Stockholm University, Sweden. Employed to set up the XRF core scanning laboratory.

### Parental Leave

- 2012-2013 90% of full time for a total of 11 months
- 2008-2009 50% of full time for a total of 2.5 months
- 2007-2008 100% of full time for a total of 11 months

## Research Funding

### *Research Grants (as Primary Applicant)*

- 2020-2023: **Scandinavian Storminess during the Holocene: Separating the Signals**, Formas, 2.96 MSEK
- 2019-2023: **Storminess in the Eastern North Atlantic Region during the Holocene**, Vetenskapsrådet, 3.4 MSEK
- 2019: **Storminess in the Eastern North Atlantic Region during the Holocene**, Formas 2.9 MSEK (Grant declined due to double funding)
- 2017-2021: **Temporal Scale Changes in Species Distributions in Boreal Peatlands**, Bolin Centre for Climate Change PhD Student Grant, 1.8 MSEK
- 2015: **Reconstructing Past Mineral Dust Deposition and Effective Humidity Variations in Southern Africa**, SSEESS Research Links Programme, 78 kSEK
- 2010-14: **The Missing Terrestrial Link: Peat and the Dust Cycle**, Junior Research Position (Forskarassistent). Swedish Research Council, 4.8 MSEK
- 2007-09: **Peatlands: A New Terrestrial Archive of Dust Deposition**, Postdoctoral Fellowship, Swedish Research Council, 1 MSEK
- 2005: **Reconstruction of the spatial and temporal evolution of atmospheric heavy metal deposition in north-western Spain**, University of London, United Kingdom, £2,500

### *Research Grants (as Co-Applicant)*

- 2023-2027: **Carbon burial (in)efficiency in northern lakes: in situ molecular insights on sediment carbon burial and loss** (PI: Richard Bindler), Vetenskapsrådet, 3.6 MSEK
- 2020-2024: **Reconstructing hydroclimatic extremes across south-eastern Africa using paleo-data and climate modelling**, (PI: Elin Norström), Vetenskapsrådet, 2.8 MSEK

### *Travel and Collaborative Grants (as Primary Applicant)*

- 2018: **Species Diversity and Climate over Multi-Millennial Time Scales in Boreal Peatlands**, Bolin Centre for Climate Change Integration Grant, 131 kSEK
- 2017: **Bringing Real Climate Research Questions to Gymnasium Studies**, Samverkanscheck from Stockholm University for outreach project, 35,500 SEK
- 2016: **Reconstructing Past Mineral Dust Deposition and Effective Humidity Variations in Southern Africa**, Albert och Maria Bergströms stiftelse travel grant, 20,000 SEK
- 2008: **Travel Grant for the AGU Fall Meeting in San Francisco, USA**, Wallenbergstiftelsens jubileumsfond, 8,000 SEK
- 2006: **Collaborative Grant China-UK workshop and fieldwork**, Sichuan, China, Royal Society, UK, £1,000
- 2003: **Travel grant for fieldwork in Galicia, Spain**, Hilary Bauerman Bequest, UK, £350

2003: **Travel grant for Winter Plasma conference, Florida**, The Natural History Museum London, UK, £300

2003: **Travel grant for Winter Plasma Conference**, Florida, Winter Plasma Conference, USA, £150

### *Fellowships*

2003-05: **Janet Watson Fellowship**, Department of Earth Science and Engineering, Imperial College London, £36,000

2004-05: **Overseas Research Students Award**, Universities UK, £10,230

2002-04: **PhD Support**, The Natural History Museum London, £6,000

### **Research Leadership**

#### *Postdoctoral Researchers*

2021-2023: **Dr. Jenny Sjöström**, “Scandinavian Storminess during the Holocene: Separating the Signals”.

2020-2022: **Dr. Daniel Ellerton**, “Storminess in the Eastern North Atlantic Region during the Holocene”.

2014: **Dr. Sophia Hansson**, “Reconstructing mineral dust fluxes using peatland archives in southern Sweden”.

2014: **Dr. Ewa Lind**, “Reconstructing mineral dust fluxes using peatland archives in southern Sweden”.

#### *PhD Students*

2021- **Max Holthuis** (Co-supervisor, PhD), “Keeping your feet dry in rising tides: Trends and environmental impacts of recent relative sea level rise in coastal Norway”. Norwegian University of Science and Technology.

2018- **Eleonor Ryberg** (Main Supervisor, PhD), “Temporal Scale Changes in Species Distributions in Boreal Peatlands”. Stockholm University.

2018- **Terese Olsson Kumlin** (Main Supervisor, Licentiate), “Decoding Drivers of Storminess in the Eastern North Atlantic during the Holocene”. Stockholm University.

2015-2021: **Jenny Sjöström** (Main Supervisor, PhD), “Reconstruction of Mineral Dust Deposition using Peatland Archives”. Stockholm University.

2013-2015: **Linda Löwhagen** (Main Supervisor, Licentiate), “Identifying paleotsunami deposits in Thailand using geochemical analyses”. Stockholm University.

2013-2016: **Camilla Bredberg** (Co-supervisor, Licentiate), “Asian monsoon variability and its impact on terrestrial ecosystems in southern Thailand during the Holocene”. Stockholm University.

2012-2014: **Sakonvan Chawchai** (Co-supervisor, PhD), “Shifts in monsoon intensity during the past 20,000 years – combining the signal in lakes and cave records from southern Thailand”. Stockholm University.

#### *PhD Students External Advisor*

2021- **Dominic Heslin-Rees** (External Member of PhD Advisory Committee), “Properties, trends, sources and sinks of aerosol in the Arctic./Role of FT?”.

- 2018- **Roxana Cremer** (External Member of PhD Advisory Committee), “A study of the black carbon life cycle with emphasis on aerosol cloud interactions”.

### *Supervision of Students at the MSc Level*

- 2021-2022: **Andreas Nyqvist** (Supervisor MSc project 45 hp), “Reconstructing storminess on the Faroe Islands using peat sequences”.
- 2018-2019: **Jenny Gåling** (Supervisor MSc project 45 hp), “Reconstructing Paleoclimate Changes in Northern Store Mosse: Minerals, Organic Matter and Climate”.
- 2018- **Austin Stout** (Supervisor MSc project 60 hp), “Characterizing diffuse sources of mineral dust in south central Sweden: Aeolian dunes, soils and sediments”.
- 2016-2017: **Mikaela Holm** (Supervisor MSc project 60 hp), “Reconstructing paleoenvironmental change from the Last Glacial Maximum to present at Sekhokong, Lesotho”.
- 2015: **Caroline Bringensparr** (Supervisor MSc project 60 hp), “Reconstructing paleoenvironmental change in the Sani Valley, Lesotho”.
- 2011: **Indra Sanjaya** (Co-supervisor MSc project 15 hp), “A Comparison of annually laminated sequences from Lake Vättern and the Baltic Sea: The geochemical record”.
- 2010: **Grégoire Caput** (Supervisor MSc project 30 hp), “A micro-analytical technique to screen for tephra layers in sediment sequences”.
- 2005: **Alexandra Bendezu** (Co-supervisor MSc project 30 hp), “Lead penetration and leaching in a buried soil profile”.

### *Supervision of Students at the BSc Level*

- 2021: **Oskar Vikdahl** (Supervisor BSc project 15 hp), “Reconstruction of past atmospheric mineral dust over the last 5200 cal yr BP using geochemical proxies from Store Mosse, Sweden”.
- 2020: **Elsa Björnhult Körning** (Supervisor BSc project 15 hp), “Reconstruction of past dust deposition at Gällsereds Mosse, Halland and comparison with regional records.”
- 2020: **Felicia Sköllerfelt** (Supervisor BSc project 15 hp), “Changes in peatland vegetation over the last 9000 years at Store Mosse, Småland.”
- 2016: **Anna Virolainen** (Supervisor BSc project 15 hp), “Reconstructing changes in atmospheric mineral dust and effective humidity during the last 5400 cal yr BP using geochemical proxies from Davidsmosse, SW Sweden.”
- 2016: **Jenny Söderlindh** (Supervisor BSc project 30 hp), “Record of storminess over the last 6600 years as reconstructed from mineral dusts in an ombrotrophic peat bog on Islay, Westsrn Scotland, using geochemical and mineralogical proxies.”
- 2011: **Oscar Dahlin** (Supervisor BSc project 15 hp), “Examining lake sediment geochemistry in Thai lakes: Possible connections to changes in the Asian Monsoon”.
- 2010: **Robin Biörnstad** (Co-supervisor BSc project 15 hp), “Sigvalde träsk, Gotland: En sedimentologisk och stratigraphisk study”.

## ***Mentorship***

2014-2021: In conjunction with my colleague Agatha de Boer we established a mentoring program at the Bolin Centre for Climate Research. As part of this, I have been regularly mentoring 1-2 junior scientists per year.

## **Positions of Trust**

- 2021: **Elector for the Formas “Elektorsförsamling”** for the election of the Forskningsrådet.
- 2020- **Alternate for the “Forskarutbildningsberedningen”** (committee working with the development of PhD studies), Faculty of Science, Stockholm University.
- 2020: **Pedagogic Assessor** for promotion of associate professor lecturer, Faculty of Science, Stockholm University.
- 2020: **Pedagogic Assessor** of candidates for the lectureship positions, Section of Earth and Environmental Science, Stockholm University.
- 2019: **Member of MSc Program Evaluation Committee** for the Faculty of Science, Stockholm University.
- 2019- **Reference group member** for the Stockholm University’s Gender Academy work with the natural science faculty.
- 2018: **Alternate Elector for the Formas Elektorsförsamling** for the election of the Forskningsrådet.
- 2017-2020: **Full member of the “Läraryörelsen”** (committee responsible for the selection of new lecturers and professors) for the Section of Earth Science and Environmental Science, Stockholm University.
- 2018-2021: **Representative on the Scholarship Committee for Faculty of Science** (committee responsible for awarding stipends) for the Section of Earth Science and Environmental Science Section, Stockholm University.
- 2017-2018: **Academic staff representative on the “Arbetsmiljörådet”** (committee responsible for workplace health, safety and gender equality) for the Department of Geological Sciences.
- 2016-2020: **Bedömningskommittén** for Sigrid Arrhenius stipendium. Annual award for the most promising future researcher based on their PhD thesis for the Faculty of Science, Stockholm University.
- 2015-2017: **Alternate for “Läraryörelsen”** (committee responsible for the selection of new lecturers and professors) for the Section of Earth Science and Environmental Science, Stockholm University.
- 2015-2016: **Bachelor Thesis Grading Committee**, grading committee for BSc students at the Department of Geological Sciences, Stockholm University.
- 2015-2022: **Board Member** of the International Paleolimnology Association.
- 2014- **Co-leader Bolin Linking Program**, a mentorship program within the Bolin Centre for Climate Research, Stockholm University.
- 2012-2021 **Co-leader of Research Area 5** “Historical to millennial climate variability”. Member of the Science Advisory Board for the Bolin Centre for Climate Research, Stockholm University.
- 2011- **Voting Member** of the Departmental of Geological Sciences Board (Institutionsstyrelse), Stockholm University.

## Scientific Service

- 2023: **Session Convenor** “Climate Records from Coastal Systems”. 21<sup>th</sup> INQUA Congress, Rome, Italy.
- 2023: **Session Convenor** “Peatlands through time: developmental dynamics and paleoenvironmental reconstruction dynamics through time and their use as environmental archives”. 21<sup>th</sup> INQUA Congress, Rome, Italy.
- 2022: **External Expert** for university lecturer position in geography for the Department of Geography, Norwegian University of Science and Technology.
- 2022: **External Expert** for the promotion assessment for the Department of Aquatic Science and Assessment, Swedish University of Agricultural Science.
- 2021: **Reviewer**, Leverhume Trust Grants, UK.
- 2021: **Examination Committee Member**, PhD Examination of Chiara Költringer, “Past environment and sediment dynamics in the Black Sea - Caspian Sea region from south Russian loess sequences”. Department of Geological Sciences, Uppsala University, Sweden.
- 2021: **Examiner**, MSc Examination of Patrick Casey, “A sedimentological study of Cryogenian glacial-interglacial cycles recorded by the Port Askaig Tillite Formation on Islay, Scotland”. Department of Geological Sciences, Stockholm University, Sweden.
- 2020: **Jury Member**, PhD Examination of Dawei Liu, “Integrating sediment grain size and inorganic geochemistry: implications for paleohydrological research in Patagonia”. Department of Geology, Ghent University, Belgium.
- 2020: **Examiner**, MSc Examination of Martin Dahlgren, “A sedimentological study of Cryogenian glacial-interglacial cycles recorded by the Port Askaig Tillite Formation on Islay, Scotland”. Department of Geological Sciences, Stockholm University, Sweden.
- 2019: **External Expert** for promotion review at Department of Geography, King College London.
- 2019: **Examination Committee Member**, PhD Examination of Daniele Reghellin, “Eastern equatorial Pacific bulk sediment and paleoceanographic records since the late Neogene”. Department of Geological Sciences, Stockholm University, Sweden.
- 2019-2020: **External Reviewer**, Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grants.
- 2019: **Session Convenor** “Peatland dynamics through time and their use as environmental archives”. 20<sup>th</sup> INQUA Congress, Dublin, Ireland.
- 2018: **Conference Chair**, with co-chairs Richard Bindler (Umeå University) and Dan Hammarlund (Lund University), of the International Paleolimnology Association-International Association of Limnogeology Joint Meeting which was held in Stockholm June 18-21 and attended by 400 international delegates.
- 2018: **Session Convenor** “From Coast to Continent: Wetlands as Archives of Environmental Change”. IPA-IAL 2018 Joint Meeting 2018, Stockholm, Sweden.
- 2018: **Examiner**, MSc Examination of Wanjiao Kong, “An Investigation of Early Silica Diagenesis Using Silicon Isotopes: Evidence of Reverse Weathering?”. Department of Geological Sciences, Stockholm University, Sweden.
- 2018: **Defence Chair**, PhD Examination of Natalia Barrientos, “Arctic Ocean benthic foraminifera preservation and Mg/Ca ratios: Implications for bottom water palaeothermometry”. Department of Geological Sciences, Stockholm

- University, Sweden.
- 2017: **Examination Committee Member**, PhD Examination of Juri Palmtag. "Landscape partitioning and burial processes of soil organic carbon in contrasting areas of continuous permafrost". Department of Physical Geography, Stockholm University, Sweden.
- 2017: **Examination Committee Member**, PhD Examination of Mauricio Fuentes. "Tree growth and climate in high-latitude environments in Fennoscandia and Patagonia". Department of Earth Sciences, University of Gothenburg, Sweden.
- 2016: **Examiner**, Licentiate Examination of Catherine Hirst, "Characterization of iron particles in the Lena River, NE Russia". Department of Geological Sciences, Stockholm University, Sweden.
- 2016: **External Expert for International Mention** for Noemí Silva-Sánchez. "Late-Holocene environments reconstructed from peatlands: linking geochemistry and palynology". Departamento de Edafología y Química Agrícola at the University of Santiago de Compostela, Spain.
- 2015: **Examiner**, MSc Examination of Kristina Åhlgren, "Sulfur isotopes and metal distribution in the Kvarntorp area, Närke, Sweden". Department of Geological Sciences, Stockholm University, Sweden.
- 2015: **Examiner**, MSc Examination of Therese Granberg, "Mineralogy and grain size of eolian sediments from the Shatsky Rise, NW Pacific Ocean: mineralogy as proxy for eolian record comparisons". Department of Geological Sciences, Stockholm University, Sweden.
- 2015: **Examiner**, Licentiate Examination of Afrifa Kwaku Kyei Yamoah, "Reconstruction of the Southeast Asian hydro-climate using biomarkers and their hydrogen isotopic composition", Department of Geological Sciences, Stockholm University, Sweden.
- 2014: **External Expert for International Mention** for Olga Margalef Marrasé. "The last 70 ky of Rano Aroi (Easter Island, 27°S) peat record: New insights for the Central Pacific paleoclimatology". Facultat de Geologia, Programa de Doctorat Ciències de la Terra, Institute Of Earth Sciences Jaume Almera, Spain.
- 2014: **Session Convenor** "Dust Variability during the Holocene: A multidisciplinary perspective." DUST 2014 - International Conference on Atmospheric Dust, Casterllaneta Marina, Italy.
- 2011: **Examination Committee Member**, PhD Examination of Johan Stridberg. Department of Earth and Ecosystem Sciences, Lund University, Sweden.
- 2011: **Session Convenor** "Mineral Dust: a product and agent of Quaternary climate change", 18<sup>th</sup> INQUA Congress, Bern, Switzerland.
- 2010: **External Expert**, Fonds de la Recherche Scientifique (Belgium), review of candidate proposal for postdoctoral funding.
- 2003- **Reviewer** for Nature Communications, Geochimica et Cosmochimica Acta, The Holocene, Environmental Science and Technology, Quaternary Science Reviews, Journal of Quaternary Science, Journal of Climatology, Boreas, Chemical Geology, Atmospheric Environment, Hazardous Materials, Science of the Total Environment, Journal of Paleolimnology, Analytica Chimica Acta, Geomorphology.

### ***Leadership and Pedagogy Courses***

- 2022: **Digital competence for teaching** (4.5 hp), course covering digital tools and media production in teaching

- 2021: **Studierektorsprogrammet** (Study Directors Program), 9-day course dealing with aspects of study administration given by Stockholm University.
- 2015: **Research Supervision in Theory and Practice** (3 hp), PhD supervision course given by Stockholm University.
- 2015: **Teaching and Learning in Science and Mathematics** (7.5 hp), given by the Institution for Pedagogy and Didactics, Stockholm University.
- 2014: **PhD Facilitation** course given by Lars Rökkjaer, 4-day course.
- 2013: **Course design** (3 hp), given by the Institution for Pedagogy and Didactics, Stockholm University.
- 2011: **Handledning och Ledarskap** (Supervision and Leadership), 3-day course given by the Faculty of Science, Stockholm University.

## Scientific Communication

### *Invited and Keynote Conference Presentations*

- 2020: “Peatlands and the Past: When Carbon, Mineral Dust and Climate Meet”. Institute of Geocology, Technical University of Braunschweig, Germany.
- 2019: “Peatlands and the Past: When Carbon, Mineral Dust and Climate Meet”. Session keynote, 20<sup>th</sup> INQUA Congress, Dublin, Ireland.
- 2017: “A high peat and carbon accumulation event driven by changes in dust mineralogy”. Invited talk, BIOGEOMON, Litomyšl, Czech Republic.
- 2016: “A mid-Holocene high carbon accumulation event driven by mineral dust fertilization”. Bolin Centre for Climate Research, Stockholm University, Sweden.
- 2014: “Peatland records of mineral dust deposition”. Bolin Centre for Climate Research, Stockholm University, Sweden.
- 2013: “A novel approach to paleorecords of mineral dust deposition: The Holocene record at Store Mosse, Sweden”. Bolin Centre for Climate Research, Stockholm University, Sweden.
- 2011: “Natural Geochemical Variations in Peatlands”. Keynote lecture. International Conference on Environment and Health, Liverpool, UK.
- 2011: “XRF Core Scanning of Lacustrine Sediments”. CNRS Toulouse, France
- 2010: “Inorganic Geochemistry and Peatlands as Archives of Dust Deposition”. Niels Bohr Institute, Centre for Ice and Climate, Denmark.
- 2010: “XRF Core Scanning, Terrestrial Records and How to Make Lemonade”. Department of Earth and Ecosystem Sciences, Lund University, Sweden.
- 2006: “Looking Down the Barrel: 50,000 Years of Climate Change Recorded at Lynch’s Crater (NE Queensland, Australia)”. Department of Geological Sciences, Stockholm University, Sweden.
- 2006: “Peat Core Records of Atmospheric Trace Metal Deposition”. China-UK Workshop, Sichuan, China.
- 2006: “Geochemical Tracing Tools in Peat Deposits”. China-UK Workshop, Sichuan, China.
- 2005: “Refining the Pre-Industrial Atmospheric Lead Isotope Evolution Curve in Europe”. Institute of Earth Sciences, University of Heidelberg, Germany.
- 2005: “Unlocking 45,000 Years of Rare Earth Element Deposition: A Peat Core from NE Australia”. Department of Earth Sciences, University of Cambridge, UK.

## Scientific Publications

### *Peer-Reviewed Articles in International Journals*

Underlined: Postdocs/Students for whom MEK was primary or co-supervisor

1. **Kylander ME**, Martínez Cortizas A, Sjöström JK, Gåling J, Gyllencreutz R, Bindler R, Alexanderson H, Schenk F, Reinardy BTI, Chandler BMP, Gallagher K (2023). Storm chasing: Tracking Holocene storminess in southern Sweden using mineral proxies from inland and coastal peat bogs. *Quat Sci Rev* 299:107854. <https://doi.org/10.1016/j.quascirev.2022.107854>
2. Björck S, Kylander ME, Larsen E, Lyså A, Christoffersen M, Ludvigsen M, Wastegård S (2022). Nordlaguna – A unique lake basin at the foot of the Beerenberg volcano, Jan Mayen, containing partially enigmatic sediments. *Quaternary Science Advances* 7:100060.
3. Larsson S, Kylander ME, Sannel ABK, Hammarlund D (2022). Synchronous or not? The timing of the Younger Dryas and Greenland Stadial-1 reviewed by tephrochronology. *Quaternary* 2:19.
4. Sjöström JK, Bindler R, Martínez Cortizas A, Björck S, Hansson SV, Karlsson A, Ellerton DT, **Kylander ME** (2022). Late Holocene peat paleodust deposition in southwestern Sweden - exploring geochemical properties, local mineral sources and regional aeolian activity. *Chem Geol*, 602:120881.
5. Ryberg EE, Valiranta M, Martínez Cortizas A, Erhlen J, Sjöström JK, **Kylander ME** (2022). Postglacial peatland vegetation succession in Store Mosse bog, south-central Sweden: An exploration of factors driving species change. *Boreas* <https://doi.org/10.1111/bor.12580>.
6. **Kylander ME**, Holm M, Fitchett J, Grab S, Martínez Cortizas A, Norström E, Binder R (2021). Late glacial (17,060-13,400 cal yr BP) sedimentary and paleoenvironmental evolution of the Sekhokong Range (Drakensberg), southern Africa. *PLOS ONE* 16:e0246821.
7. Martínez Cortizas A, Lopez-Merino L, Silva Sanchez N, Sjöström JK, **Kylander ME** (2021). Investigating the Mineral Composition of Peat by Combining FTIR-ATR and Multivariate Analysis. *Minerals* 11:1084.
8. Norström E, **Kylander ME**, Siteo SR, Finch JM (2021). Chronostratigraphic paleo-climate phasing based on southern African wetlands: From the escarpment to the eastern seaboard. *South African Journal of Geology* 124:977-994.
9. Schillereff DN, Chiverrell RC, Sjöström JK, **Kylander ME**, Boyle JF, Davies JAC, Toberman H, Tipping E (2021). Phosphorus supply affects long-term carbon accumulation in mid-latitude ombrotrophic peatlands. *Communications Earth and Environment* 2:241. <https://doi.org/10.1038/s43247-021-00316-2>
10. Martínez Cortizas A, Sjöström JK, Ryberg EE, **Kylander ME**, Kaal J, López-Costas O, Álvarez Fernández N, Bindler R (2021). 9000 years of changes in peat organic matter composition in Store Mosse (Sweden) traced using FTIR-ATR. *Boreas* 50:1161-1178.
11. Vandekerckhove E, Bertrand S, Torrejón F, **Kylander ME**, Reid B, Saunders KM (2021). Signature of modern glacial lake outburst floods in fjord sediments (Baker River, southern Chile). *Sedimentology* 68:2798-2819.
12. Loic P, Bertrand S, Hawkins J, **Kylander ME**, Torrejón F, Amann B, Wadham J (2021). High-resolution fjord sediment record of a receding glacier with growing intermediate proglacial lake (Steffen Fjord, Chilean Patagonia). *Earth Surface Processes and Landforms* 46:239-251.
13. Martínez Cortizas A, Horak-Terra I, Perez-Ridriguez M, Bindler R, Cooke CA, **Kylander ME** (2021). Structural equation modeling of long-term controls on mercury and bromine accumulation in Pinheiro mire (Minas Gerais, Brazil). *Science of the Total Environment* 757:143940.

14. Sjöström JK, Martínez Cortizas A, Hansson SV, Silva Sanchez N, Bindler R, Rydberg J, Mörth CM, Ryberg EE, **Kylander ME** (2020). Paleodust deposition and peat accumulation rates - Bog size matters. *Chemical Geology* 554:119795.
15. Strandberg NA, Barliaev A, Martinsson-Wallin H, Risberg J, Hättestrand M, Croudace I, **Kylander ME**, Yokoyama Y (2020). Landscape development at Lina myr fen, Eastern Gotland, 9000–2500 cal. yr BP. *The Holocene* 8:1205-1219.
16. **Kylander ME**, Söderlindh J, Schenk F, Gyllencreutz R, Rydberg J, Bindler R, Martínez Cortizas A, Skelton A (2020). It's in your glass: a history of sea level and storminess from the Laphroaig bog, Islay (southwestern Scotland). *Boreas* 49:152-167. doi.org/10.1111/bor.12409.
17. Rocha E, Gunnarson B, **Kylander ME**, Augustsson A, Rindby A, Holzkämper (2020). Testing the applicability of dendrochemistry using X-ray fluorescence to trace environmental contamination at a glassworks site. *Science of the Total Environment* 720:137429.
18. De Vleeschouwer F, Baron S, Cloy JM, Enrico M, Ettler V, Fagel N, Kempter H, **Kylander ME**, Li C, Longman J, Martínez-Cortizas A, Marx S, Mattielli N, Mighall T, Nieminen TM, Piotrowska N, Pontevedra Pombal X, Pratte S, Renson V, Shotyk W, Shuttleworth E, Sikorski J, Stromsoe N, Talbot J, von Scheffer C, Weiss D, Zaccone C, Le Roux G (2020). Comment on: “A novel approach to peatlands as archives of total cumulative spatial pollution loads from atmospheric deposition of airborne elements complementary to EMEP data: Priority pollutants (Pb, Cd, Hg)” by Ewa Miszczak, Sebastian Stefaniak, Adam Michezyński, Eiliv Steinnes and Irena Twardowska. *Science of The Total Environment*, 138699.
19. López-Costas O, **Kylander ME**, Mattielli N, Álvarez-Fernández N, Pérez-Rodríguez M, Mighall T, Bindler R, Martínez Cortizas A (2020). Human bones tell the story of atmospheric mercury and lead exposure at the edge of Roman World. *Science of the Total Environment* 710:136319.
20. Martínez Cortizas A, López Costas O, Orme L, Mighall T, **Kylander ME**, Bindler R, Gallego Sala A (2020). Holocene atmospheric dust deposition in NW Spain. *The Holocene* <https://doi.org/10.1177/0959683619875193>.
21. Björck S, Sjolte J, Ljung K, Adolphi F, Flower R, Smittenberg RH, **Kylander ME**, Stocker TF, Holmgren S, Jiang H, Muscheler R, Afrifa YKK, Rattray JE, Van der Putten N (2019). A South Atlantic island record uncovers shifts in westerlies and hydroclimate during the last glacial. *Climate of the Past* 15:1939-1958.
22. Sjöström JK, Bindler R, Granberg T, **Kylander ME** (2019). Procedure for Organic Matter Removal from Peat Samples for XRD Mineral Analysis. *Wetlands* <https://doi.org/10.1007/s13157-018-1093-7>.
23. Löwemark L, Bloemsma M, Croudace I, Daly JD, Edwards RJ, Francus P, Galloway JM, Gregory BRB, Huang J-J S, Jones AF, **Kylander ME**, Löwemark L, Luo, Suzanne Y Ohlendorf MC, Patterson RT, Pearce C, Profe J, Reinhardt EG, Stranne C, Tjallingii R, Turner JN (2019). Practical guidelines and recent advances in the Itrax XRF core-scanning procedure. *Quaternary International* 514: 16-29.
24. **Kylander ME**, Martínez-Cortizas A, Bindler R, Kaal J, Sjöström J, Hansson SV, Silva Sánchez N, Greenwood SL, Gallagher K, Rydberg J, Mörth CM, Rauch S (2018). Mineral dust as a driver of carbon accumulation in northern latitudes. *Scientific Reports* 8: 6876.
25. Katrantsiotis C, **Kylander, ME**, Smittenberg R, Yamoah KKA, Hattestrand M, Avramidis P, Strandberg NA, Norström E (2018). Eastern Mediterranean hydroclimate reconstruction over the last 3600 years based on sedimentary n-alkanes, their carbon and hydrogen isotope composition and XRF data from the Gialova Lagoon, SW Greece. *Quaternary Science Reviews* 194:77-93.
26. Wohlfarth B, Luoto TP, Muschitiello F, Väiliranta M, Björck S, Davies SM, **Kylander ME**, Ljung K, Reimer PJ, Smittenberg RH (2018). Climate and environment in southwest Sweden 15.5-11.3 cal. ka BP. *Boreas* 47:687-710.

27. Emmanouilidis A, Katrantsiotis C, Norstrom E, Risberg J, **Kylander ME**, Sheik TA, Iliopoulos G, Avramidis P (2018). Middle to late Holocene palaeoenvironmental study of Gialova Lagoon, SW Peloponnese, Greece. *Quaternary International* 476:46-62.
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### ***Peer-Reviewed Book Contributions***

1. Martinez-Cortizas A, Silva Sánchez, Pérez Rodríguez M, Rodríguez Lado L, Lopez-Costas O, Mighall T, Lopez-Morino L, Bindler R, **Kylander ME**, Biester H (2015). Peatland soils: archives of atmospheric metal pollution in Spain. *In* Remediated sites and brownfields: Success stories in Europe. A report of the European Information and Observation Network's National Reference Centres for Soil (Eionet NRC Soil). Payá Pérez A, Peláez Sánchez S, Van Liedekerke M, eds. EUR 27530 EN; doi 10.2788/406096.
2. Rauch S, **Kylander ME**, Khosravi M, Jamtrot A (2009). Trace metals in Stockholm sediments. *In* Highway and Urban Environment Proceedings of the 9<sup>th</sup> Highway and Urban Environment symposium (eds. S Rauch, GM Morrison, A Monzón). Alliance for

- Global Sustainability Book series Science and Technology: Tools for Sustainable Development, p. 267-273.
3. **Kylander ME**, Muller J (2008). Inorganic geochemistry in paleoclimate: Tools and trends in the analysis of peat and lake sediments. *In* Climate Change Research Progress (ed. LN Peretz). Nova Publishers, p. 161-186.
  4. Weiss DJ, **Kylander ME**, Reuer M (2007). The environmental geochemistry of lead. *In* Advances in Earth Science: From Earthquakes to Global Warming (eds. PR Sammonds, JMT Thompson). Imperial College Press, p. 245-272.
  5. **Kylander ME**, Weiss DJ, Peiteado Varela E, Taboada Rodriguez T, Martinez-Cortizas A (2006). Archiving anthropogenic lead pollution in ombrotrophic peatlands. *In* Peatlands: basin evolution and depository of records on global environmental and climatic changes (eds. PI Martini, W Chestworth, A Martinez-Cortizas). Elsevier, p. 479-497.

### ***Peer-Reviewed Conference Contributions***

1. **Kylander ME**, Martínez Cortizas A, Sjöström JK, Schenk F, Ellerton D, Bindler R (2023). Coastal peat records: an exploration of potentials and problems. INQUA Congress, Rome Italy.
2. Sjöström JK, Martínez Cortizas A, Schenk F, Nylund A, Gyllencreutz R, Bindler R, Ellerton D, **Kylander ME** (2023). A stormy past: a high-resolution Holocene storm reconstruction from a coastal bog, north-western Ireland. INQUA Congress, Rome Italy.
3. Ellerton D, Alexanderson H, Peric Z, Sjöström JK, **Kylander ME** (2023). Late Holocene coastal dune chronology from southwestern Scotland: Implications for climate, storminess and coastal evolution. INQUA Congress, Rome Italy.
4. Nylund A, Sjöström JK, Martínez Cortizas A, Ellerton D, Mostensen L, Bindler R, **Kylander ME** (2023). Mid- to late Holocene mineral deposition and peat decomposition in the Faroe Islands using geochemical proxies: disentangling storm signals from volcanic eruptions. INQUA Congress, Rome Italy.
5. Ryberg E, Ehrlen J, Välranta M, **Kylander ME** (2023). Exploration of factors driving species changes using paleo-species distribution modeling in Store Mosse bog, south-central Sweden (preliminary results). INQUA Congress, Rome Italy.
6. Schenk F, Nazarova LB, Trasune L, Hällberg P, Salonen JS, Välranta M, Kotrys B, Luoto T, Smittenberg R, **Kylander ME**, Drobyshch I, Zhang Q (2023). High continentality as a key driver of rapid deglaciation in Europe. INQUA Congress, Rome Italy.
7. Holthius M, Nixon FC, **Kylander ME**, van der Bilt W, Martin J, Lakeman T (2023). Relative sea-level change during the Common Era in Norway: new data from intertidal basins and salt marshes. INQUA Congress, Rome Italy.
8. Hällberg P, Smittenberg R, Schenk F, **Kylander ME** (2022). Intense mid-Holocene warming on highland Sumatra: insights from biomarker proxies. EGU General Assembly, Vienna, Austria.
9. Holthius M, Nixon FC, **Kylander ME**, van der Bilt W, Martin J, Lakeman T (2022). Late Holocene sea-level change and storms in southwestern Norway based on new data from intertidal basins and salt marshes. EGU General Assembly, Vienna, Austria.
10. Bertrand S, Vandekerckhove E, Liu D, Renon V, **Kylander ME**, Saunders KM, Reid B, Torrejón F (2021). Signature of Modern Meteorological and Glacial Lake Outburst Floods in Fjord Sediments (Baker River, southern Chile). AGU Annual Fall Meeting, New Orleans, USA.
11. Schillereff DN, Boyle JF, Tipping E, Chiverrell RC, Sjöström JK, **Kylander ME**, Toberman H (2019). Millennial-scale interactions between nitrogen, phosphorus and climate in Holocene peatlands. INQUA Congress, Dublin Ireland.
12. Martínez Cortizas A, López Costas O, Orme L, Mighall T, **Kylander ME**, Bindler R, Gallego Sala A (2019). 11,000 years of atmospheric dust deposition in NW Spain recorded by Tremeal do Pedrido bog. INQUA Congress, Dublin Ireland.

13. Sjöström JK, Hansson SV, Bindler R, Mörth C-M, Silva Sánchez N, Martínez Cortizas A, **Kylander ME** (2019). Paleodust deposition from mid-Holocene to the present in south-central Sweden from multi-element datasets coupled with mineralogy. INQUA Congress, Dublin Ireland.
14. **Kylander ME**, Söderlindh J, Schenk F, Gyllencreutz R, Rydberg J, Bindler R, Skelton A (2019). It's in your glass: A history of sea level, storminess and human activity from the Laphroaig peat bog. INQUA Congress, Dublin Ireland.
15. López Costas O, Kylander ME, Sjöström JK, Silva Sánchez N, Hansson SV, Martínez Cortizas A (2019). The colour of Draftinge Mosse peatland, Sweden. INQUA Congress, Dublin Ireland.
16. Ryberg E, **Kylander ME**, Väiliranta M, Ehrlén J (2019). Temporal scale changes in species distribution in boreal peatlands: Store Mosse, South-central Sweden (preliminary results). INQUA Congress, Dublin Ireland.
17. Vandekerckhove E, Bertrand S, Reid B, Saunders KM, **Kylander ME**, Pantoja S (2019). Imprint of recent Glacial Lake Outburst Floods (GLOFs) in Baker fjord sediments (Chile, 48 °S). INQUA Congress, Dublin Ireland.
18. Piret L, Bertrand S, Hawkings J, **Kylander M**, Amann B (2019). High-resolution fjord sediment record of a retreating glacier with growing intermediate proglacial lake (Steffen Fjord, Chile). INQUA Congress, Dublin Ireland.
19. **Kylander ME**, Martínez-Cortizas A, Bindler R, Hansson S, Kaal J, Silva Sánchez, Greenwood G, Mörth M-C, Rauch S (2017). A high peat and carbon accumulation event driven by changes in dust mineralogy. Invited talk, BIOGEOMON, Litomyšl, Czech Republic.
20. **Kylander ME**, Martínez-Cortizas A, Bindler R, Hansson S, Kaal J, Silva Sánchez, Greenwood G, Mörth M-C, Rauch S (2017). A high peat and carbon accumulation event driven by changes in dust mineralogy. Talk, PAGES Open Science Meeting, Zaragoza, Spain.
21. **Kylander ME**, Rydberg J, De Vleeschouwer (2017). The Novel Application of XRF Core Scanning to the Analysis of the Minerogenic Fraction in Peats. Talk, XRF Core Scanning 2017, Teipei, Taiwan.
22. Holm M, **Kylander ME**, Grab S, Fitchett J, Martínez-Cortizas A, Bindler R (2017). Hydroclimatic variations from the Last Glacial to historical times in Lesotho, eastern southern Africa. Poster, PAGES Open Science Meeting, Zaragoza, Spain.
23. Sjöström J, **Kylander ME**, Hansson S, Bindler R (2017). A 8.3ka paleo-dust deposition record from southern Sweden inferred from geochemical methods combined with direct mineralogical identification by X-ray diffraction analysis. Poster, PAGES Open Science Meeting, Zaragoza, Spain.
24. Thomas Z, Turney C, Kershaw P, Jones R, Croudace I, Moss P, Herbert T, Grosvenor M, Wust R, Brown J, Muller J, **Kylander ME**, Rule S, Lewis S, Coulter S (2017). Evidence for enhanced ENSO variability during glacial periods. Poster, EGU General Assembly, Vienna, Austria.
25. Svärd H, O'Regan M, **Kylander ME**, Greenwood S, Magnus C-M, Jakobsson M (2017). Sedimentary and pore water geochemistry linked to deglaciation and postglacial development of Lake Vättern, Sweden. EGU General Assembly, Vienna, Austria.
26. **Kylander ME**, Martínez-Cortizas A, Bindler R, Greenwood S, Mörth M-C, Rauch S (2015). A Neoglacial carbon burial event in southern Sweden driven by mineral dust fertilization. INQUA Congress Nagoya, Japan.
27. **Kylander ME**, Martínez-Cortizas A, Bindler R, Rauch S, Mörth M-C (2014). Store Mosse 2.0: The Story in the Dust Geochemistry. Nordic Geological Winter Meeting, Lund, Sweden.
28. Löwehagen L, Jankaew K, **Kylander ME**, Wohlfarth B (2014). Identifying paleotsunami deposits in Thailand using geochemical analyses. Nordic Geological Winter Meeting, Lund, Sweden.

29. O'Regan M, Ampel L, Greenwood S, **Kylander ME**, Preto P, Swärd H, Jakobsson M (2014). Geotechnical and sedimentary evidence for late glacial ice dynamics in Southern Lake Vattern. Nordic Geological Winter Meeting, Lund, Sweden.
30. Johnson M, Phillips E, **Kylander ME**, Casserstedt L, Wiborgh H, Björck S (2014). Contrast in glaciomarine varves deposited before and after the Baltic Ice Lake drainage: micromorphologic and geochemical evidence. Nordic Geological Winter Meeting, Lund, Sweden.
31. Pampura T, Meili M, **Kylander ME**, Holm K, Probst A, Demkin V (2012). Lead concentrations and isotopic compositions in a paleosoil buried under an Iron-Age kurgan in the Lower Volga region of Russia, and comparison to modern soils. EGU General Assembly 2012, Vienna, Austria.
32. Finné M, Boyd M, **Kylander ME**, Löwemark L Sundqvist HS (2012). Can an XRF scanning be used as a non-destructive method to identify flooding events in speleothems? Daphne workshop, Heidelberg, Germany.
33. **Kylander ME** (2011). Natural Geochemical Variations in Peatlands, Keynote lecture. International Conference on Environment and Health, Liverpool, UK.
34. **Kylander ME**, Wastegård S, Lind-Mettävainio E, Löwemark L, Wohlfarth B (2010). The Itrax and organic rich sediments: Tephrochronology and humification. Itrax 2010 Meeting, Lipari, Italy.
35. **Kylander ME**, Potucek M, Bindler R, Wohlfarth B (2010). Using peatlands as archives of dust deposition: A preliminary record from southern Sweden. European Geosciences Union General Assembly, Vienna, Austria.
36. Lind-Mettävainio E, Wastegård S, **Kylander ME** (2010). New early Holocene tephra horizons from the Faroe Islands. International Field Conference and Workshop on Tephrochronology, Volcanism and Human Activity, Kyushu, Japan.
37. Wohlfarth B, **Kylander ME**, Ampel L, Veres D (2008). High Resolution Itrax Analysis of Les Échets (France) Sedimentary Sequence: Linking Geochemical, Biological and Physical Proxies. AGU Annual Fall Meeting, San Francisco, CA, USA.
38. **Kylander ME**, Coulter S, Klimaschewski A, Wohlfarth B (2008). A New Micro-Analytical Technique for the Identification of Tephra Layers in Sediments. AGU Annual Fall Meeting, San Francisco, CA, USA.
39. Diaz-Somoano M, **Kylander ME**, Weiss DJ, López-Antón MA, Suárez-Ruiz I, Martínez-Tarazona MR (2007). Lead Isotope Variability in Coals. International Conference on Coal Science and Technology, Nottingham, UK.
40. Muller J, **Kylander ME**, Wüst RAJ, Weiss DJ, Martinez-Cortizas A (2006). The Response of Tropical Australia to Heinrich Events: Evidence in a Terrestrial Paleorecord from Lynch's Crater. AGU 2006 Joint Assembly, Baltimore, MD, USA.
41. **Kylander ME**, Muller J, Weiss DJ, Wüst RAJ (2005). 55,000 Years of Peat Accumulation at Lynch's Crater, Australia: REE and Pb Isotope Records and Environmental Change. AGU Annual Fall Meeting, San Francisco, CA, USA.
42. Muller J, **Kylander ME**, Wüst RAJ, Weiss DJ (2005). 55,000 yrs of Environmental Change in the Southern Hemisphere: Peat Stratigraphy and Inorganic Geochemistry of Lynch's Crater, NE Queensland, Australia. AGU Annual Fall Meeting, San Francisco, CA, USA.
43. Muller J, **Kylander ME**, Wüst RAJ, Weiss DJ (2005). Geochemical Climate Proxies 1: Trace elements in a 13 m record from Lynch's Crater, NE-Queensland, Australia. PAGES Meeting, Mainz, Germany.
44. **Kylander ME**, Muller J, Wüst RAJ, Weiss DJ, Garcia-Sanchez R (2005). Geochemical Climate Proxies 2: Rare Earth Elements and Lead Isotopes in 13 m record from Lynch's Crater, NE-Queensland, Australia. PAGES Meeting, Mainz, Germany.
45. Wüst RAJ, Muller J, **Kylander ME**, Weiss DJ (2005). Lynch's Crater - suitability of a peat record for paleoclimatic constraints based on (multiple) geochemical proxies: trace elements, Pb-isotopes and REE. PAGES Meeting, Mainz, Germany.

46. Wüst RAJ, **Kylander ME**, Muller J, Weiss DJ, Garcia-Sanchez R (2005). A 40 kyrs record of atmospheric Pb deposition in the Southern Hemisphere. PAGES Open Meeting, Beijing, China.
47. **Kylander ME**, Coles BJ, Jeffires T, Weiss D (2004). Improved Sample Preparation Methods and Consequent Lead Isotope Analysis in Peat and Plant Material by Multi-Collector (MC-) and Laser Ablation (LA-) Inductively Coupled Plasma Mass Spectrometry (ICP-MS). Winter Conference on Plasma Spectrochemistry, Fort Lauderdale, USA.
48. **Kylander ME**, Coles BJ, Weiss D (2003). Analytical Method Development for Lead Concentration and Isotopic Analysis in Ancient Peat Using Laser Ablation-Quadropole (LA-Q) and Multi Collector (MC-) ICP-MS. British Ecological Society Annual Meeting, Manchester, UK.

### ***Open Access Datasets***

1. Kylander ME, Martínez-Cortizas A, Sjöström JK, Gåling J (2023). Peat properties and geochemistry of a 5000 year old peat sequence from Store Mosse Dune South, southern Sweden. Dataset version 1. Bolin Centre Database <https://doi.org/10.17043/kylander-2023-store-mosse-1>
2. **Kylander ME** (2021). Multiproxy geochemical and pollen data from a Late Glacial sedimentary sequence, high Drakensberg, Lesotho. Dataset version 1.0. Bolin Centre Database. <https://doi.org/10.17043/kylander-2021>
3. **Kylander ME**, Söderlindh J, Schenk F, Gyllencreutz R, Rydberg J, Bindler R, Martínez-Cortizas A, Skelton A (2019). Peat parameters, age model, elemental concentrations and grain size data from the Laphroaig Peat Bog, Islay, Southwestern Scotland. PANGAEA, <https://doi.org/10.1594/PANGAEA.903893>,
4. Sjöström J, Bindler R, Granberg T, **Kylander ME** (2018): Procedure for Organic Matter Removal from Peat Samples for XRD Mineral Analysis. Wetlands. <https://doi.org/10.1007/s13157-018-1093-7>
5. **Kylander ME**, Martínez-Cortizas A, Bindler R, Kaal J (2018). Peat accumulation rates, organic and inorganic geochemistry of Store Mosse and Dumme Mosse, Sweden. PANGAEA, <https://doi.org/10.1594/PANGAEA.887309>
6. **Kylander ME**, Martínez Cortizas A, Bindler R (2016). Bulk density, ash content, humification, peat accumulation and selected lithogenic data of Store Mosse peat bog. PANGAEA, <https://doi.org/10.1594/PANGAEA.860085>

### ***Outreach Projects***

- 2019: Macrofossils, carbon and deposit formation. Outreach project with gymnasia student from Per Brahegymnasiet, Jönköping who did their final year project with our research group (13 students).
- 2018: Storm reconstruction on Islay, Scotland. VR funded outreach project with gymnasia student from Per Brahegymnasiet, Jönköping who do their final year project with our research group (11 students).
- 2017: Carbon accumulation and deposit formation. Stockholm University funded outreach project with gymnasia student from Per Brahegymnasiet, Jönköping who did their final year project with our research group (13 students).
- 2016: Storm reconstruction on Islay, Scotland. FORMAS funded outreach project with gymnasia student from Väsby Nya Gymnasium, Stockholm who did their final year project with our research group (12 students).
- 2015: Bolin Blog for Children written in conjunction with fieldwork in South Africa <http://bolin.su.se/index.php/bolin-blogs/352-goop-and-time-travel-in-southern-africa>
- 2014- Researcher representing the Bolin Centre for Climate Research at the

- 2018: Klimatfestival demonstrating hands on Activities about “Ocean Acidification” and “The Greenhouse Effect” for School Children.

### *Popular Science Articles or Presentations*

- 2021: **Panellist**, Leadership and Microaggressions in Academia workshop, online event May 31, 2021.
- 2021: **Profiled Scientist**, ”Urgammal is och sten avslöjar svunnet klimat”. Forskning och Framsteg <https://fof.se/tidning/2021/1/artikel/urgammal-is-och-sten-avslojar-svunnet-klimat>
- 2021: **Co-organizer**, Picture a Scientist of film viewing and round table discussion. Virtual Event hosted by Stockholm University, Sweden.
- 2021: **Story behind the CV**, talk given for the Gender Academy Stockholm University, virtual event hosted by Stockholm University, Sweden.
- 2020: **Outnumbered and Surrounded: Women Working in Male-Dominated Research Fields**”, talk given at Women in Science-Ecology Virtual Conference November 4-6.
- 2019: **We’re doing OK, but we need to do better**. Article in Stockholm Universitets UniversitetsNytt September 2013, number 3.
- 2019: **Outnumbered and Surrounded: Women Working in Male Dominated Research Fields**. Article in Geoscientist: The Fellowship Magazine of the Geological Society of London.
- 2019: **Outnumbered and Surrounded: Women Working in Male Dominated Research Fields: Women in Science**. Article in Angle Journal. Retrieved from <http://anglejournal.com/article/2018-12-outnumbered-and-surrounded-women-working-in-male-dominated-research-fields-women-in-science-000128/>
- 2018: **Myrar, mygg och klimatarkiv: Klimatforskning på Store Mosse**, public presentation given Store Mosse’s Naturum, Hillerstorp, Sweden.
- 2017: **Myrar, mygg och klimatarkiv**, public presentation at the Bolin Centre Klimatfestival, Stockholm University, Stockholm, Sweden.
- 2016: **The Storm in Your Glass: What Peat Can Tell us About Past Climate Change on Islay**, public presentation at the Islay Natural History Trust, Islay, Scotland.
- 2015: **Becoming a researcher and Research as a Job**, presentation to students from Per Brahegymnasiet (Jönköping), Stockholm University, Stockholm, Sweden.
- 2014: **En geokemists uppväxt**, presentation to school principals from the Research School on Natural Hazards (Forksarskolan för lärare med inriktning naturkatastrofer), Stockholm University, Stockholm, Sweden.
- 2013: **There’s Something in the Air: Peat and the Dust Record**, public presentation, Stockholm University, Stockholm, Sweden.
- 2011: **Radio Interview** given in conjunction with keynote lecture at the SEGHS Conference for Edge Hill University news (2011), interview available at: <http://www.edgehill.ac.uk/news/2011/04/gauging-environmental-pollution>
- 2011: **Presentation of hands-on activities** about “Klimatforskning” at Stockholms Forskarfredag, Stockholm, Sweden.
- 2009: **Peat and the Past: Lead Isotopes and Stories of Environmental Change**, public presentation at Stockholm University, Stockholm, Sweden.
- 2008: **Decoding the Stories Written in Environmental Archives: From Lead**

**Pollution to Dust Deposition**, public presentation at Stockholm University, Stockholm, Sweden.

## Teaching

### *Teaching Assistant*

2003-2005: **Geochemistry**, tutorial leader  
1998-1999: **Biology I**, laboratory demonstrator

### *Course Head*

2019- **Paleoclimatology**, on site MSc (7.5 hp)  
2019- **Sedimentary Systems**, on site BSc (7.5 hp)  
2018: **Bolin PhD Summer School on Arctic Climate Change**, Co-Organizer, Abisko, Sweden (3 hp)  
2014-2018: **Paleoceanography and Paleoclimatology II**, on site MSc (7.5 hp)  
2010- **Climate change throughout Earth's history**, on-line MSc distance course (15 hp)

### *Contributing Teacher-MSc and BSc*

2020- **Ecological and Evolutionary Responses to Climatic Variation**, on-site MSc course (15 hp)  
2020- **Vetenskaplighet och självständigt arbete I geovetenskap**, on-site BSc course (15 hp)  
2018: **Sedimentary Systems**, on-site BSc course (7.5 hp)  
2015-2017: **Geochemistry I**, on-site BSc course (15 hp)  
2015-2016: **Tellus I**, on-line BSc distance course (30 hp)  
2014-2017: **Environmental Geochemistry**, on-site BSc course (7.5 hp)  
2013-2017: **Geology**, on-site BSc distance course (30 hp)  
2011: **Geochemistry II**, on-site BSc course (15 hp)  
2009-2011: **Marine Geology II**, on-site BSc course (15 hp)

### *Contributing Teacher-PhD*

2015-2017: **Historical Perspectives on Climate Change**, Bolin Centre PhD Course (3 hp)  
2015: **Bolin Summer School on Isotopes**, Islay, Scotland (3 hp)

### *Supervision of Traineeships*

2019: Paraskevi Mylona (7.5 hp)  
2018: Austin Stout (7.5 hp)  
2016: Mikaela Holm (7.5 hp)  
2010: Martina Potucek (15 hp)

### *Contributing Teacher-Orientation Level*

2019: **Klimatförändring – ett geologiskt perspektiv**, on-site orientation course (7.5 hp)  
2018: **Minerals and Bergarter**, on-site orientation course (30 hp)

2014: **Human Evolution**, field course in Les Eyzies, France (3 hp)