

CAMILLE LI - CURRICULUM VITAE

Website: <http://folk.uib.no/cli061>

Google Scholar: <https://scholar.google.com/citations?user=vwuH5QYAAAAJ>

Researcher ID: G-5802-2011

Phone: +47 55 58 37 05

Email: camille@uib.no

EDUCATION

- Ph.D., Atmospheric Sciences, University of Washington (UW), 2007
- M.Sc., Geophysics, University of British Columbia (UBC), 1999
- B.Sc., Engineering Physics, Queen's University (QU), 1998

EMPLOYMENT

- 2017 – Professor, Geophysical Institute, University of Bergen (UiB), Norway
 - 2013 – Research group leader, Bjerknes Centre for Climate Research (BCCR), Norway: Global climate (2017–); Large-scale atmosphere-ocean dynamics (2013– 2017)
 - 2012 – 2018 Associate Professor, Geophysical Institute, University of Bergen (UiB), Norway
 - 2011 – 2012 Assistant Scientist, Bjerknes Centre for Climate Research (BCCR), Norway
 - 2007 – 2011 Postdoctoral Research Fellow, BCCR/UiB, Norway
- External positions
- 2013 – Adjunct Associate Research Scientist, Lamont-Doherty Earth Observatory (LDEO) at Columbia University, USA
 - 2009 Guest Investigator, Geology & Geophysics, Woods Hole Oceanographic Institution, Woods Hole, USA

PUBLICATIONS

* indicates co-authors under supervision at the time papers were written

- Hell, M., T. Schneider and C. Li, Atmospheric circulation response to short-term Arctic warming in an idealized model, *J. Atmos. Sci.*, in press.
- *Madonna, E., C. Li and J.J. Wettstein, Suppressed eddy driving during southward excursions of the North Atlantic jet on synoptic to seasonal time scales, *Atmos. Sci. Lett.*, e937, 2019.
- Roberts, W.G.H, C. Li and P. Valdes, The mechanisms that determine the response of the Northern Hemisphere's stationary waves to North American Ice Sheets, *J. Climate*, 32, 3917-3940, 2019.
- Graff, L.S. et al., The "NorESM1-Happi" used for evaluating the role of ocean and sea-ice feedbacks under global warming of 1.5°C and 2°C, *Earth Syst. Dynam.*, 10, 569-598, 2019.
- Li, C. and A. Born, Coupled atmosphere-ice-ocean dynamics in Dansgaard-Oeschger events, *Quat. Sci. Rev.*, 203, 1-20, 2019.
- *Schemm, S., G. Rivière, L. Ciasto and C. Li, Understanding ENSO's influence on extratropical cyclones and their genesis over North America and the North Atlantic, *J. Climate*, 75, 3943-3964, 2018.
- Tandon, N.F., P.J. Kushner, D. Docquier, J.J. Wettstein and C. Li, Reassessing the role of sea ice drift in Arctic sea ice loss, *J. Geophys. Res.*, *J. Atmos. Sci.*, 75, 3943-3964, 2018.
- King, M.P., I. Herceg-Bulić, I. Bladé, J. García-Serrano, N. Keenlyside, F. Kucharski, C. Li and S. Sobolowski, Importance of late fall ENSO teleconnection in the Euro-Atlantic sector, *Bull. Amer. Meteor. Soc.*, 99, 1337-1343, 2018.
- Li, C., C. Michel, L.S. Graff, I. Bethke, G. Zappa, T.J. Bracegirdle, E. Fischer, B. Harvey, T. Iversen, M.P. King, H. Krishnan, L. Lierhammer, D. Mitchell, J. Scinocca, H. Shiogama, D.A. Stone and J.J. Wettstein, Midlatitude atmospheric circulation responses under 1.5 °C and 2.0 °C warming and implications for regional impacts, *Earth Syst. Dynam.*, 9, 359-382, 2018.
- Woollings, T., E.A. Barnes, B. Hoskins, Y.-O. Kwon, R. Lee, C. Li, *E. Madonna, M. McGraw, T. Parker, R. Rodrigues, C. Spensberger and K. Williams, Daily to decadal modulation of jet variability, *J. Climate*, 31, 1297-1314, 2018.
- *Madonna, E., C. Li, C. Grams and T. Woollings, The link between eddy-driven jet variability and weather regimes in the North Atlantic-European sector, *Q. J. Royal Met. Soc.*, 143, 2960-2972, 2017.
- Spensberger, C., T. Spengler and C. Li, Upper tropospheric jet axis detection and application to the boreal winter 2013/14, *Mon. Wea. Rev.*, 145, 2363-2374, 2017.
- *Nummelin, A., C. Li and *P.J. Hezel, Connecting ocean heat transport changes from the mid-latitudes to

- the Arctic Ocean, *Geophys. Res. Lett.*, 44, 1899-1908, 2017.
- *Sellevoold, R., S. Sobolowski and C. Li, Investigating possible Arctic-midlatitude teleconnections in a linear framework, *J. Climate*, 29, 7329-7343, 2016.
- *Ciasto, L.M., C. Li, J.J. Wettstein and N.G. Kvamstø, North Atlantic storm track sensitivity to projected sea surface temperature: local versus remote influences, *J. Climate*, 29, 6973-6991, 2016.
- *Schemm, S., L. Ciasto, C. Li and N.G. Kvamstø, Influence of tropical Pacific sea surface temperature on the genesis of Gulf Stream cyclones, *J. Atmos. Sci.*, 73, 4203-4214, 2016.
- Shaw, T.A., M. Baldwin, E.A. Barnes, R. Caballero, C.I. Garfinkel, Y.-T. Hwang, C. Li, P.A. O’Gorman, G. Rivière, I.R. Simpson and A. Voigt, Storm track processes and the opposing influences of climate change, *Nature Geosci.*, 9, 656-664, 2016.
- *Nummelin, A, M Ilicak, C Li, LH Smedsrud, Consequences of future increased Arctic runoff on Arctic Ocean stratification, circulation and sea ice cover, *J. Geophys. Res.*, 120, 617-637, 2016.
- *Sorokina, S, C Li, JJ Wettstein, NG Kvamstø, Examining the turbulent heat flux link between Barents sea ice and cold Siberian winters, *J. Climate*, 29, 495-511, 2016.
- *Nummelin, A, C Li and LH Smedsrud, Response of Arctic Ocean stratification to changing river runoff in a column model, *J. Geophys. Res.*, 120, 2655-2675, 2015.
- *Zhang, Z, G Ramstein, M Schuster, C Li, C Contoux, Q Yan, Aridification of Sahara caused by Tethys Sea shrinkage during Late Miocene, *Nature*, 513, 401-404, 2014.
- Eldevik, T, B Risebrobakken, AE Bjune, C Andersson, HJB Birks, TM Dokken, H Drange, MS Glessmer, C Li, JEØ Nilsen, OH Otterå, K Richter, Ø Skagseth, A brief history of climate - the northern seas from the Last Glacial Maximum to global warming, *Quat. Sci. Rev.*, 2014.
- Dokken, TM, KH Nisancioglu, C Li, DS Battisti, C Kissel, Dansgaard-Oeschger cycles: interactions between the ocean and sea ice intrinsic to the Nordic Seas, *Paleoceanography*, 28, 491-502, 2013.
- Lam, PJ, LF Robinson, J Blusztajn, C Li, MS Cook, JF McManus and LD Keigwin, Transient stratification as the cause of the North Pacific productivity spike during deglaciation, *Nature Geosci.*, 6, 622-626, 2013.
- Smedsrud, LH, I Esau, RB Ingvaldsen, T Eldevik, PM Haugan, C Li, VS Lien, A Olsen, AM Omar, OH Otterå, B Risebrobakken, AB Sandø, VA Semenov, *SA Sorokina, The role of the Barents Sea in the Arctic climate system, *Rev. Geophys.*, 51, 415-449, 2013.
- Telford, RJ, C Li and M Kucera, Mismatch between the depth habitat of planktonic foraminifera and the calibration depth of SST transfer functions may bias reconstructions, *Clim. Past*, 9, 859-870, 2013.
- *Bethke, I, C Li and KH Nisancioglu, Can we use ice sheet reconstructions to constrain meltwater for deglacial simulations?, *Paleoceanography*, 27, PA2205, 2012.
- Li, C and JJ Wettstein, Thermally-driven and eddy driven jet variability in reanalysis, *J. Climate*, 25, 1587-1596, 2012.
- *Pausata, FSR, C Li, JJ Wettstein, M Kageyama and KH Nisancioglu, The key role of topography in altering North Atlantic atmospheric circulation during the last glacial period, *Clim. Past*, 7, 1089-1101, 2011.
- Li, C, DS Battisti, CM Bitz, Can North Atlantic sea ice anomalies account for Dansgaard-Oeschger climate signals?, *J. Climate*, 23, 5457-5475, 2010.
- *Pausata, FSR, C Li, JJ Wettstein, KH Nisancioglu and DS Battisti, Changes in atmospheric variability in a glacial climate and the impacts on proxy data: a model intercomparison, *Clim. Past*, 5, 489-502, 2009.
- Li, C and DS Battisti, Reduced Atlantic storminess during Last Glacial Maximum: Evidence from a coupled climate model, *J. Climate*, 21, 3561-3579, 2008.
- Li, C, DS Battisti, DP Schrag and E Tziperman, Abrupt climate shifts in Greenland due to displacements of the sea ice edge, *Geophys. Res. Lett.*, 32, L19702, 2005.
- Li, C, P Tercier and R Knight, The effect of sorbed oil on the dielectric response of sand and clay, *Water Resour. Res.*, 37(6), 1783-1794, 2001.

PRESENTATIONS (INVITED ONLY)

- Quaternary Research Association ADM, Leeds, UK, 2020.
- Institute for Atmospheric & Climate Science Colloquium, ETH Zurich, Switzerland, 2019, 2016.
- Joint Oslo Seminar in Atmospheric, Ocean and Climate Science, University of Oslo, Norway, 2019.
- Storm Tracks 2018 workshop, Utö, Sweden, 2018.
- Brøgger Seminar, Department of Geological Sciences, Stockholm University, Sweden, 2018.
- Geophysical Institute 100 Years Symposium: Atmosphere, Ocean and Society in Motion, Bergen, Norway, 2017.
- MetOS Seminar, Department of Geosciences, University of Oslo, Norway, 2016.
- Canadian Sea Ice and Snow Evolution Workshop, Toronto, Canada, 2016.
- Research Center for Environmental Changes Seminar, Academia Sinica, Taiwan, 2016.
- Department of Atmospheric Sciences Seminar, National Taiwan University, Taiwan, 2016.
- International Conference on Paleoceanography ICP12, Utrecht, Netherlands, 2016.
- Marine Research Centre Seminar, Macquarie University, Sydney, Australia, 2016.
- Atmospheric, Oceanic & Planetary Physics Seminar, University of Oxford, Oxford, UK, 2016.
- Atmospheric Physics Seminar, Imperial College, London, UK, 2016.
- Earth, Atmospheric & Planetary Physics Seminar, University of Toronto, Toronto, Canada, 2016.
- Ateliers de Modélisation de l'Atmosphère, Toulouse, France, 2015.
- Atmosphere-ice-ocean interactions and Dansgaard-Oeschger cycles, AGU Fall Meeting, San Francisco, USA, 2014.
- Earth Science Colloquium, Lamont-Doherty Earth Observatory and Columbia University, USA, 2013.
- Climate & Environmental Physics Seminar, University of Bern, Switzerland, 2012.
- Atmospheric Physics Seminar, University of Toronto, Canada, 2012.
- Modes of variability in the climate system: Past-Present-Future, ESF Research Conference, Obergurgl, Austria, 2012.
- Atmospheric Sciences Seminar, Seoul National University, South Korea, 2011.
- Earth & Environmental Sciences Seminar, Seoul National University, South Korea, 2011.
- Geochemistry Division Seminar, Lamont-Doherty Earth Observatory, USA, 2010.
- On the role of North Atlantic sea ice displacements in Dansgaard-Oeschger cycles, CMOS-CGU Congress, Ottawa, Canada, 2010.
- Physical Oceanography Seminar, Woods Hole Oceanographic Institution, USA, 2010.
- Geology & Geophysics Seminar, Woods Hole Oceanographic Institution, USA, 2009.
- Atmospheric & Oceanic Sciences Departmental Seminar, McGill University, Canada, 2008.
- The role of sea ice in the global climate system workshop, BCCR, Norway, 2005.
- Chemical Oceanography Seminar, Massachusetts Institute of Technology, USA, 2005.

GRANTS

2020	Dynamical Links between Polar and Midlatitude Atmospheres, Research Council of Norway FORSKERMOBILITET, PI (€22k)
2018-2022	Constraining the Large Uncertainties in Earth System Model Projections with a Big Data Approach, Research Council of Norway FRINATEK, WP leader (€1,165k)
2018-2019	Role of Atmospheric Waves in Arctic-midlatitude Linkages, Research Council of Norway KLIMAFORSK, PI (€15k)
2016–2020	Dynamics of Arctic-Midlatitude Teleconnections: mechanisms, robustness, tropical modulation, Research Council of Norway KLIMAFORSK, PI (€1,030k)
2016	Collaboration grant, Oxford and Imperial College, Meltzer Research Fund, PI (€5k)
2014–2018	Atmospheric jet variability: linking STRucture, Evolution And Mechanisms, Research Council of Norway FRINATEK, PI (€600k)
2013–2017	Ocean Controls on high latitude Climate sensitivity – a Pliocene case study, Research Council of Norway FRINATEK, WP leader (€1,000k)
2011–2014	Dynamics of Past Warm Climates, SKD/BCCR Strategic Project, PI (€1,200k)

TEACHING EXPERIENCE

2020	Instructor – BIO8026 Arctic Ocean functioning: interdisciplinary perspectives from geology to ecosystems (University of Tromsø), Skibotn, Norway (3 ECTS)
2017	Instructor – Dynamics of the Seasonal Cycle, Advanced Climate Dynamics Course (UiB), Rondane, Norway (5 ECTS)
2016, 2019	Instructor – GEOF212 Physical Climatology, GFI, UiB (10 ECTS)
2015, 2017, 2019	Faculty mentor – Science Writing Workshop, GFI, UiB (1 ECTS)
2015	Instructor – PhD Bootcamp (UiB & University of Copenhagen), Odsherred, Denmark (1 ECTS)
2012	Instructor – Landscapes & Climate, Advanced Climate Dynamics Course (UiB), Dovre, Norway (5 ECTS)
2008	Guest Lecturer – Dynamical Meteorology, Departament d'Astronomia i Meteorologia, University of Barcelona, Spain
2002, 2004	Teaching Assistant, graduate course – ATMS 587 Climate Dynamics, UW
2002	Teaching Assistant, undergraduate course – ATMS 211 Climate and Climate Change, UW
1999	Laboratory Instructor, undergraduate course – Experimental Geophysics, UBC

SUPERVISION

Masters students

- Helene Asbjørnsen, advisor; M.S. (UiB) 2016, Winter circulation anomalies in 2009/10 and 2013/14, and associated forcing mechanisms; Current position: PhD candidate, UiB
- Raymond Sellevold, advisor; M.S. (UiB) 2015, The midlatitude stationary wave response to Arctic Amplification-related heating; Current position: PhD candidate, TU Delft

PhD students:

- Stina Olandersson, advisor (UiB) in progress 2018 –
- Fabio Mangini, co-advisor (NERSC) in progress 2017 –
- Peter Yu Feng Siew, advisor (UiB) in progress 2017 –
- Aleks Nummelin, advisor; Ph.D. (UiB) 2016, The Arctic Ocean in a fresh and warm future; Current position: Research Scientist, NORCE, Norway
- Svetlana Sorokina, co-advisor; Ph.D. (UiB) 2014, Certain aspects of high latitude climate variability; Current position: Postdoctoral Researcher, UiB, Norway
- Ingo Bethke, co-advisor; Ph.D. (UiB) 2012, Contrasting the roles of freshwater and sea ice changes in transient climates; Current position: Research Scientist, UiB, Norway
- Francesco S. R. Pausata, co-advisor; Ph.D. (UiB) 2010, Past climate variability: model analysis and proxy intercomparison; Current position: Assistant Professor, UQAM, Canada

Postdoctoral researchers:

- Etienne Dunn-Sigouin, in progress (UiB) 2017 – 2021
- Clio Michel (UiB) 2015 – 2019; Current position: Research scientist, UiB, Norway
- Erica Madonna (UiB) 2015 – 2018; Current position: Research scientist, UiB, Norway
- Paul Hezel (UiB) 2014 – 2018; Current position: Research scientist, AWI, Germany
- Co-advisor to: Sebastian Schemm, Laura Ciasto, Zhongshi Zhang

SERVICE

- | | |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>External</i> | <ul style="list-style-type: none">- Executive Editor, Weather and Climate Dynamics, EGU Copernicus, 2019 –- National Contact, International Association of Meteorology and Atmospheric Sciences (IAMAS), 2019 –- Organizing Committee, ice2ice Dansgaard-Oeschger Workshop, 2016, Bergen, Norway- Scientific Organizing Committee, SPARC Workshop on storm tracks, 2015, Grindelwald, Switzerland- reviewer of research articles for <i>Clim. Dyn.</i>, <i>Clim. Past</i>, <i>Dyn. Atmos. Oceans</i>, <i>Geophys. Res. Lett.</i>, <i>J. of Atmos. Sci.</i>, <i>J. Climate</i>, <i>Nature Geosci.</i>, <i>Paleoceanogr.</i>, <i>Tellus</i> |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- reviewer of proposals for the National Science Foundation (US)
- examiner on PhD theses for Università Ca' Foscari Venezia, Italy; University of Bern, Switzerland; University of Helsinki, Finland; University of Oslo, Norway
- contributing author for Chapter 5 of the IPCC AR5 report WG1
- convener of topical sessions at meetings of the AGU, EGU

Internal

- member of internal promotion/evaluation committees (UiB), 2019 –
- faculty representative, Geophysical Institute Board Council (UiB), 2014 –
- member of PhD defence committees (UiB)
- member of hiring committees for PhD, postdoc and researcher positions (UiB)
- member of local committee for Bjerknes Centre 10-Year Anniversary Conference: Climate Change in High Latitudes (BCCR), 2012
- organizing committee of Bjerknes Getaway 2012 retreat (BCCR)

Outreach

- contributor to climatesnack.com, META Magazine (www.notur.no), Bjerknes podcasts
- volunteer telementor for Society for Canadian Women in Science and Technology

HONOURS

- Marie Tharp Fellowship in Earth, Environmental and Ocean Sciences, Earth Institute / LDEO at Columbia University, 2012 – 2013
- Editors' Citation for Excellence in Refereeing, AGU, 2011
- Outstanding Student Paper Award in Ocean Sciences, AGU, 2003
- 14th Global Change and Climate Variations Symposium Scholarship, AMS, 2003
- Canada Scholarship for Studies in Science and Engineering, 1994
- James H. Rattray Memorial Scholarship in Applied Science, QU
- Anniversary Scholarship, QU