

## Curriculum Vitae - Camille Li

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### 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

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

### Publications (\* indicates papers by students and postdocs)

#### Manuscripts in progress

- Shaw, TA, M Baldwin, EA Barnes, R Caballero, CI Garfinkel, Y-T Hwang, C Li, PA O’Gorman, G Rivière, IR Simpson and A Voigt, Storm track processes in a hierarchy of models and the opposing influences of climate change, submitted.
- \*Sellevold, R, S Sobolowski, C Li, Investigating possible Arctic - midlatitude teleconnections in a linear framework, submitted.
- \*Ciasto, LM, C Li, JJ Wettstein, NG Kvamstø, North Atlantic storm track sensitivity to projected sea surface temperature: local versus remote influences, submitted.
- \*Schemm, S, \*LM Ciasto, C Li, NG Kvamstø, Influence of El Niño on extratropical cyclogenesis over the Gulf Stream, submitted.

#### Articles

- \*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.*, 10.1016/j.quascirev.2014.06.028, 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.

### Outreach and other

- Li, C and S Rondenay, Computing the earth from core to clouds, META Magazine, 02/2013 ([www.notur.no/meta-magazine-archive](http://www.notur.no/meta-magazine-archive))

### 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
- 14<sup>th</sup> Global Change and Climate Variations Symposium Scholarship, AMS, 2003
- Canada Scholarship for Studies in Science and Engineering, 1992 – 1994
- James H. Rattray Memorial Scholarship in Applied Science, QU, 1993
- Anniversary Scholarship, QU, 1992

### Grants

- DynAMITE: Dynamics of Arctic-Midlatitude Teleconnections: mechanisms, robustness and tropical modulation, Research Council of Norway KLIMAFORSK, UiB, PI, 2016 – 2020 (€1 032 000)
- jetSTREAM: Atmospheric jet variability: linking STRUCTure, Evolution And Mechanisms, Research Council of Norway FRIPRO, UiB, PI, 2014 – 2018 (€597 130)
- DYNAWARM: Dynamics of Past Warm Climates, SKD, UiB, co-PI, 2011 – 2014 (€1 180 200)
- Abrupt events, Research Council of Norway SFF (Centres of Excellence), BCCR, PI, 2011 – 2012 (€127 500)
- How does the NAO operate in different climates?, BCCR Internal Project, PI, 2010 (€7 200)

## Invited talks

- Atmospheric, Oceanic & Planetary Physics Seminar, University of Oxford, Oxford, UK, 2016.
- Atmospheric Physics Seminar, Imperial College, London, UK, 2016.
- Institute for Atmospheric & Climate Science Colloquium, ETH, Zurich, Switzerland, 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, LDEO 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.
- Bjerknes Days, Bergen, Norway, 2007.
- The role of sea ice in the global climate system workshop, BCCR, Norway, 2005.
- Chemical Oceanography Seminar, Massachusetts Institute of Technology, USA, 2005.

## Teaching experience

2016	Instructor – GEOF212 Physical Climatology, UiB
2015	Instructor – PhD Bootcamp (UiB and University of Copenhagen), Odsherred, Denmark
2012 –	Coordinator – Journal Club, Geophysical Institute
2012	Lecturer – Landscapes & Climate, Advanced Climate Dynamics Course, Dovre
2008	Guest Lecturer – Dynamical Meteorology Department d'Astronomia i Meteorologia, University of Barcelona, Spain
2002 – 2004	Teaching Assistant, graduate course – Climate Dynamics; undergraduate course – Climate and Climate Change, UW
1999	Laboratory Instructor, undergraduate class – Experimental Geophysics, UBC

## Supervision

Masters students:

- Helene Asbjørnsen, advisor, in progress (2014 – 2016), UiB
- Raymond Sellevold, advisor (2013 – 2015), UiB

PhD students:

- Aleks Nummelin, advisor, in progress (2012 – 2016), UiB
- Svetlana Sorokina, co-advisor, 2011 – 2014, UiB, Certain aspects of high latitude climate variability, Current position: Postdoctoral Researcher, UiB, Bergen, Norway
- Ingo Bethke, co-advisor, 2010 – 2012, UiB, Contrasting the roles of freshwater and sea ice changes in transient climates, Current position: Research Scientist, Bjerknes Centre for Climate Research, Bergen, Norway

- Francesco S. R. Pausata, co-advisor, 2007 – 2010, UiB, Past climate variability: model analysis and proxy intercomparison, Current position: Postdoctoral Research Fellow, European Commission - JRC Institute for Environment and Sustainability, Ispra, Italy

Postdoctoral researchers:

- Erica Madonna, in progress (2015 – 2018), UiB
- Paul Hezel, in progress (2014 – 2018), UiB

## Service

- External*
- member of Scientific Organizing Committee for SPARC Workshop on storm tracks, 2015, Grindelwald, Switzerland
  - contributing author for Chapter 5 of the IPCC AR5 report WG1
  - session convener for 22<sup>nd</sup> VM Goldschmidt Conference, 2012, Montréal, Canada
  - reviewer of research articles for *Clim. Dyn.*, *Clim. Past*, *Dyn. Atmos. Oceans*, *Geophys. Res. Lett.*, *J. of Atmos. Sci.*, *J. Climate*, *Nature Geosci.*, *Tellus*
  - member of AGU, EGU, Geochemical Society, Earth Science Women's Network
- Internal*
- faculty representative, Geophysical Institute Board Council (UiB), 2014 –
  - censor for Masters defences (UiB), 2012 –
  - member of selection committees for PhD and postdoc positions (UiB), 2007 –
  - internal pre-submission review of manuscripts (BCCR), 2007 –
  - member of local committee for Bjerknes Centre 10-Year Anniversary Conference: Climate Change in High Latitudes (BCCR), 2011 – 2012
  - organizing committee of Bjerknes Getaway 2011 retreat (BCCR)
  - co-organizer of the Bjerknes Lecture Series (BCCR), 2007 – 2008
- Outreach*
- contributor to [climatesnack.com](http://climatesnack.com), META Magazine ([www.notur.no](http://www.notur.no))
  - volunteer telementor for Society for Canadian Women in Science and Technology

## Experience at sea

- Cruise with R/V Nathaniel B. Palmer to the Ross Sea, Antarctica, 1999 (Geophysical Institute, University of Alaska Fairbanks, US)