

Philippe Lucas-Picher

Born August 3, 1977, in Montréal, Québec, Canada.

Nationality: Canadian

Home address:

Ahlmanns Allé 4, 5 tv

Hellerup, Denmark

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Work address:

Danish Climate Centre @ Danish Meteorological Institute

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Climate Scientist

Specialist in regional climate modelling

Education

2003-2008

Ph.D. in Environmental Sciences at Université du Québec à Montréal

Thesis Title: Characterization of the regional climate model's internal variability

Director: Daniel Caya, Co-Director: René Laprise

2000-2003

M.Sc. in Atmospheric Sciences at Université du Québec à Montréal

Thesis Title: Implementation of a River Routing Scheme in the Canadian Regional Climate Model

Director: Daniel Caya, Co-Director: René Laprise

1997-2000

B.Sc. in Physics at Université du Québec à Montréal

Professional Experiences

01-2008 to today

Post-Doctoral position in the Danish Climate Centre at the Danish Meteorological Institute (Supervisor: Jens H. Christensen)

09-2002 to 08-2003

Research Assistant in the Canadian Regional Climate Group at the Department of Earth and Atmospheric Sciences at Université du Québec à Montréal (Supervisor: Daniel Caya)

Summer 2000

Research Assistant in the Canadian Regional Climate Group at the Department of Earth and Atmospheric Sciences at Université du Québec à Montréal (Supervisor: René Laprise)

Summer 1999

Research Assistant at the Physics Department at Université du Québec à Montréal (Supervisor: Chérif Hamzaoui)

Publications

Papers with peer review

Christensen, J. H., F. Boberg, O. B. Christensen, and **P. Lucas-Picher**, 2008: On the need for bias correction of regional climate change projections of temperature and precipitation, *Geo. Res. Lett.*, 35, L20709, doi:10.1029/2008GL035694.

Laprise, R., R de Elia, D. Caya, S. Biner, **P. Lucas-Picher**, E. Diaconescu, M. Leduc, A. Alexandru, L. Separovic, 2008: Challenging some tenets of Regional Climate Modelling, *Meteorol. Atmos. Phys.*, 100, 3–22.

Lucas-Picher, P., D. Caya, S. Biner and R. Laprise, 2008: Quantification of the lateral boundary forcing of a regional climate model using an ageing tracer, *Monthly Weather Review*, 136, 4980-4996, DOI: 10.1175/2008MWR2448.1.

Lucas-Picher, P., D. Caya, R. de Elia and R. Laprise, 2008: Investigation of regional climate models' internal variability with a ten-member ensemble of ten years over a large domain, *Clim. Dyn.*, 31, 927-940, DOI: 10.1007/s00382-008-0384-8.

Lucas-Picher, P., V.K. Arora, D. Caya and R. Laprise, 2003: Implementation of a large-scale variable velocity flow routing algorithm in the Canadian Regional Climate Model (CRCM), *Atmosphère-Océan*, 41, 139-153.

Papers without peer review

Lucas-Picher, P., D. Caya and S. Biner, 2006: Relation between RCM's internal variability and residency time of the atmospheric parcels into the limited area domain. *Research activities in Atmospheric and Oceanic Modelling*, WMO/TD, edited by J. Côté, April 2006.

Lucas-Picher, P., D. Caya and S. Biner, 2004: RCM's internal variability as function of domain size. *Research activities in Atmospheric and Oceanic Modelling*, WMO/TD, edited by J. Côté, April 2004, 7.25-7.26.

Lucas-Picher, P., V. Arora, D. Caya and R. Laprise, 2002: Incorporating river routing in the Canadian Regional Climate Model. *Research activities in Atmospheric and Oceanic Modelling*, edited by H. Ritchie, WMO/TD - No 1105, Report No. 32: 7.29-7.30.

Other publications

Lucas-Picher, P., 2008: La caractérisation de la variabilité interne des modèles régionaux de climat, *Ph.D. Thesis in Environmental Sciences*, Université du Québec à Montréal, 129 p.

Lucas-Picher, P., 2006: Revue des principales méthodes quantitatives d'analyse du climat, *Rapport de synthèse environnementale pour le doctorat en sciences de l'environnement*, 46 p.

Lucas-Picher, P., 2003: Implémentation d'un schéma de routage de rivière dans le Modèle Régional Canadien du Climat, *M.Sc. Thesis in Atmospheric Sciences*, Université du Québec à Montréal, 71 p.

Presentations (Oral)

Lucas-Picher, P., 2009: Investigation of RCMs' internal variability with a ten-member ensemble of ten-year simulations over a large domain, *Official invitation to the Max Planck Institute*, Hamburg, Germany, September 3, 2009.

Lucas-Picher, P., J. H. Christensen, G. Aðalgeirsdóttir, M. Stendel and R. Mottram, 2009: Very high-resolution regional climate modelling over Greenland, *The Arctic Freshwater Budget International symposium*, Nuuk, August 25-27, 2009.

Lucas-Picher, P., J. H. Christensen, G. Aðalgeirsdóttir and M. Stendel, 2009: Very high-resolution regional climate modelling over Greenland, *IAMAS-IAPSO-IACS Joint Assembly*, Montréal, Québec, Canada, July 19-29, 2009.

Lucas-Picher, P., 2009: Investigation of RCMs' internal variability with a ten-member ensemble of ten-year simulations over a large domain, *Official invitation to Swiss Federal Institute of Technology Zurich (ETH)*, Zurich, Switzerland, June 3, 2009.

Lucas-Picher, P., 2009: Caractérisation de la variabilité interne des modèles régionaux de climat, *official invitation to Météo-France*, Toulouse, France, February 19, 2009.

Lucas-Picher, P. and J. Christensen, 2008: Regional Climate Modelling in Climate Change Projections: The EU-ENSEMBLES Approach, *AMMA/ENSEMBLES workshop*, Niamey, Niger, May 26-30, 2008.

Lucas-Picher, P., 2008: Caractérisation de la variabilité interne des modèles régionaux de climat, Ph.D. thesis defense in Environmental Sciences, Université du Québec à Montréal, Montréal, Québec, Canada, May 9, 2008.

Lucas-Picher, P., D. Caya, R. Laprise and S. Biner, 2007: Investigating RCM's internal variability using an ageing tracer, *41th Meeting of the Canadian Meteorological Society*, St. Johns, Newfoundland, Canada, May 29-June 1, 2007.

Lucas-Picher, P., D. Caya, R. Laprise and S. Biner, 2006: Investigating RCM's internal variability using an ageing tracer, *Third ICTP Workshop on the Theory and Use of Regional Climate Models*, Trieste, Italy, May 29-June 9, 2006.

Lucas-Picher, P., D. Caya, R. Laprise and S. Biner, 2006: Investigating RCM's internal variability using an ageing tracer, *Canadian Climate Variability Network Workshop*, Victoria, Canada, March 27-29, 2006.

Lucas-Picher, P., D. Caya and S. Biner, 2006 : Corrélation entre la variabilité interne d'un MRC et le temps de résidence de l'écoulement atmosphérique dans le domaine d'intégration, *Atelier de modélisation de l'atmosphère*, Toulouse, France, January 18-20, 2006.

Lucas-Picher P., D. Caya and S. Biner, 2004: Influence of domain size on RCM's internal variability, *Canadian Climate Variability Network Workshop, McGill*, Montréal, Canada, February 21-22, 2005.

Lucas-Picher P., D. Caya and S. Biner, 2004: Influence of domain size on RCM's internal variability, *American Geophysical Union (AGU), Fall Meeting*, San Francisco, USA, December 13-17, 2004.

Lucas-Picher, P., V.K. Arora, D. Caya and R. Laprise, 2004: Implémentation d'un schéma de routage de rivière dans le Modèle Régional Canadien du Climat, *72^e congrès de l'association francophone pour le savoir (ACFAS)*, Montréal, Québec, Canada, May 10-14, 2004.

Presentations (Poster)

Lucas-Picher, P., J. H. Christensen, M. Stendel and G. Aðalgeirsdóttir, 2009: Very high-resolution regional climate simulations over Greenland with the HIRHAM model, *2nd Lund Regional-scale Climate Modelling Workshop: 21st Century Challenges in Regional-scale Climate Modelling*, Lund, Sweden, May 4-8, 2009.

Lucas-Picher, P., D. Caya, R. de Elía, S. Biner and R. Laprise, 2009 : Investigation of regional climate models' internal variability with a ten-member ensemble of ten-year simulations over a large domain, *2nd Lund Regional-scale Climate Modelling Workshop: 21st Century Challenges in Regional-scale Climate Modelling*, Lund, Sweden, May 4-8, 2009.

Lucas-Picher, P., D. Caya, S. Biner and R. de Elía, 2006: Sensibilité de la variabilité interne des modèles régionaux de climat à la dimension du domaine, *Ouranos Symposium*, Montréal, Québec, Canada, November 2-3, 2006.

Lucas-Picher, P., D. Caya and S. Biner, 2004: La variabilité interne des modèles régionaux en fonction de la dimension du domaine et du pilotage spectral, *Ouranos Symposium*, Montréal, Québec, Canada, June 9-10, 2004.

Lucas-Picher, P., D. Caya and S. Biner, 2004: RCM's internal variability as function of domain size and large scale nudging, *1st Lund Regional-scale Climate Modelling Workshop*, Lund, Sweden, March 29-April 2, 2004.

Lucas-Picher, P., D. Caya and S. Biner, 2003: Sensitivity of RCMs' internal variability to domain size and large scale nudging, *37th Meeting of the Canadian Meteorological Society*, Ottawa, Ontario, Canada, June 2-5, 2003.

Lucas-Picher, P., V.K. Arora, D. Caya and R. Laprise, 2002: Implementation of a large-scale flow routing scheme in the Canadian Regional Climate Model (CRCM), *American Geophysical Union (AGU)*, Fall Meeting, San Francisco, USA, December 6-10, 2002.

Lucas-Picher, P., V.K. Arora, D. Caya and R. Laprise, 2002: Implementation of river routing in the Canadian Regional Climate Model (CRCM), *36th Meeting of the Canadian Meteorological Society*, Rimouski, Québec, Canada, May 22-25, 2002.

Projects participation

FP6-Watch (WATER and global CHange)

FP6-ENSEMBLES

FP7-ICE2SEA

Summer School participation

Climate variability and climate change: Estimating and reducing uncertainties, Visegrad, Hungary, June 8-17, 2009.

Third ICTP Workshop on the Theory and Use of Regional Climate Models, Trieste, Italy, May 29-June 9, 2006.

Additional Information

Reviewer for Climate Dynamics and Monthly Weather Review

I have a driver's licence

Great communication skills in English and French (written and spoken)

Wide range knowledge of computer programming (Fortran, Unix, IDL), platforms (Window, MAC, Linux) and programs (Word, Excel, Power Point, Adobe Illustrator, Adobe Photoshop)

Grants

2007 Grant as student-athlete at Université du Québec à Montréal

2002 University Grant for Masters Studies

2002 Grant for winning department poster contest

Hobbies

Badminton

2006-2007 Winner of the sportsmanship and perseverance Trophy – Québec University Badminton League

2005-2006 Finalist in boys double at the Québec University Badminton Championship

2005-2006 2nd All-Star Québec University Badminton team