

Stephanie Leroux : Curriculum Vitae

Born October 1st, 1982, Lorient, France. French citizenship.

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Research interests

- Dynamics of African easterly waves and the West-African monsoon.
- Intraseasonal modulation of tropical convectively coupled wave activity.
- Tropics-midlatitudes interactions on intraseasonal timescales.

Research Experience

- POSTDOC: Jan 2012 – ...
SUNY, University at Albany, NY, Dep. of Atmospheric and Environmental Sciences.
Postdoc Research Assistant.
In collaboration with Chris Thorncroft: *Intraseasonal variability in the African monsoon.*
- POSTDOC: Dec 2009 – Dec.2011:
Earth System Research Laboratory, NOAA, Boulder, Colorado.
2-year National Research Council (NRC) fellowship.
In collaboration with George Kiladis: *Intraseasonal modulation of tropical convectively coupled wave activity.*
- PHD: 2006 – 2009 :
LTHE, UJF Grenoble, supervisor Nicholas Hall.
On the dynamics of African easterly waves: origin, propagation and interaction with the environment.
- UNDERGRADUATE RESEARCH PROJECTS:
 - M2R (Fev-Jun 2006): LTHE, UJF, Grenoble, supervisor Nicholas Hall.
African easterly waves in the regional model MAR.
 - M1 (jun-aug 2004): JETO, Papeete University of French Polynesia. Supervisor K. Maamaatuaiahutapu.
Evolution of the sea temperature in Polynesia from XBT data.
 - L3 (jun-jul 2003): IPG, Université Paris VII. Supervisor S. Sing and C. Romevaux.
Gravimetric study along the trace of La Réunion hotspot volcano.

Education

- 2009 PhD in Atmospheric sciences, Université J. Fourier Grenoble, France.
- 2006 M2R (Master's thesis) in Atmospheric sciences, UJF Grenoble, France.
- 2005 Preparation class for a competitive examination ("*agregation SVT*") in Earth sciences and biology to be entitled to teach in French High-schools - passed in July 2005, ENS-Lyon.
- 2003–2004 Undergraduate in Earth system sciences. Ecole Normale Supérieure, Lyon, France.
- 2001–2002 Preparation class for the Ecole Normale Supérieure de Lyon (university with competitive entrance exam), Lycée Malherbe, Caen, France.
- 2000 "Baccalaurat S" (Science). Lyce Leverrier, Saint-Lo, France.

Teaching Experience

- Teaching assistant (2006-2009) in Observatoire des Sciences de l'Univers de Grenoble (OSUG), Université

de Grenoble, France. 192 hours (undergraduate level): Introduction to scientific computing; Introduction to Earth System sciences.

- Advisor and co-advisor for several undergraduate research projects in LTHE (2006-2009).

Awards & Grants

- 2009–2011: 2-year postdoctoral fellowship from the National Research Council (USA).
- 2009: Thesis prize 2009 from Université J. Fourier, Grenoble.
- 2006–2009: 3-year PhD fellowship from the French Ministry of Education and Research.
- 2002–2005: 4-year grant from Ecole Normale Supérieure de Lyon (allocated to the undergraduate students who pass the competitive entrance exam).

Miscellaneous

- Reviews for:
 - Quarterly Journal of the Royal Meteorological Society,
 - Geophysical Research Letters,
 - Journal of Climate.
- Co-organization of the monthly ASP group discussion, LTHE, 2008-2009
- Language skills:
 - French (mother-tongue)
 - English (good speaking-writing-reading)
- Programming and software:
Fortran, bash scripts, Scilab, Matlab, NCL (NCAR Command Language), GMT (Generic Mapping Tools),
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Referees:

- Nick Hall (PhD advisor):
Professor at Université Paul Sabatier, LEGOS,
14 Avenue Edouard Belin, 31401 Toulouse cedex 9, France
✉Email: Nick.Hall@legos.obs-mip.fr.
☎Tel: (+33) 5 61 33 29 19
- George Kiladis (Postdoc advisor):
Federal Research Scientist at NOAA, ESRL, PSD1
325 Broadway, Boulder, CO 80305, USA
✉Email: George.Kiladis@noaa.gov.
☎Tel: (+1) 303 497 3892

Stephanie Leroux: Scientific publications and communications:

ARTICLES:

- **2011**, **Leroux S.**, Hall N. and Kiladis G., J. Climate, **24**: 5378-5396.
Intermittent African Easterly Wave activity in a dry atmospheric model: influence of the extratropics.
- **2011**, Liebmann B., Bladé I., Kiladis G., Carvalho L., Senay G., Allured D., **Leroux S.**, Funk C., J. Climate, (Accepted, in press). *Seasonality of African Precipitation from 1996-2009.*
- **2011**, Janicot S., Caniaux G., Chauvin F., de Côtlogon G., Fontaine B., Hall N., Kiladis G., Lafore J. P., Lavaysse C., Lavender S. L., **Leroux S.**, Marteau R., Mounier F., Philippon N., Roehrig R., Sultan B., Taylor C. M. Atmosph. Sci. Lett., **12**: 58-66. *Intraseasonal variability of the West African monsoon.*
- **2010**, **Leroux S.**, Hall N. and Kiladis G. QJRM, **136**, 397-410.
A climatological study of transient-mean flow interactions over West Africa.
- **2009**, **Leroux S.** and Hall N., J. Atmos. Sci., **66**, 2303-2316.
On the relationship between African easterly waves and the African easterly jet.
- **2009**, Janicot S., Mounier F., Hall N., **Leroux S.**, Sultan B., Kiladis G., J. Climate, **22**, 1541-1565
The dynamics of the West African monsoon. Part IV: Analysis of 25-90-day variability of convection and the role of the Indian monsoon.
- **2007**, Vanvyve E., Hall N., Messenger C., **Leroux S.**, van Ypersele J.-P., Climate Dyn., **30**, 191-202.
Internal variability in a regional climate model over West Africa.

SEMINARS:

- CSU, Fort-Collins, CO, July 2011.
- CNRM/Météo-France, Toulouse, October 2010.
- ESRL/NOAA, Boulder, CO, January 2010.

INTERNATIONAL CONFERENCES:

- Poster: WCRP Conference, Denver, USA, October, 2011.
- Oral & Poster: AMS conference on Atmospheric and Oceanic Fluid Dynamics, Spokane, USA, June, 2011.
- Poster: AGU conference, San Francisco, USA, December 13-15, 2010.
- Oral: 29th AMS conference on Hurricanes and Tropical Meteorology, Tucson, USA, May, 2010.
- Oral: 3rd AMMA AMMA, Ouagadougou, Burkina Faso, July, 2009.
- Oral: AMMA WP2.1 meeting, Toulouse, France, October, 2008.
- Oral: 2nd AMMA conference, Karlsruhe, Allemagne, November, 2007.
- Poster: EGU conference, Vienne, Autriche April, 2007.

SUMMER SCHOOLS AND WORKSHOPS :

- Waves and Multiscale Processes in the Tropics workshop, AIM, Palo Alto, USA, December 6-10, 2010.
- Simulation Hierarchies for Climate Modeling workshop, IPAM, Los Angeles, USA, May 3-7, 2010.
- Ewim Nimdie summer school on tropical meteorology and climate sciences, Ghana. 2 weeks, July 2008.
- ERCA (European Research Courses on Atmospheres), Grenoble, France. 5 weeks, Jan-Feb 2007.