

Antoine Leblois

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01/26/1983, two children

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## Current position

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Researcher (CR2) INRA, Laboratoire d'Economie Forestière.

## Education

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**2013 - 2014:** Postdoc, Institute for Environment and Sustainability (IES), Joint Research Centre (JRC) of the European Commission.

**2012 - 2013:** Postdoc, Laboratoire d'Économétrie, École Polytechnique.

**2011 - 2012:** AMID Fellow, University of Namur.

**2009 - 2012:** PhD candidate at EHESS (*École des Hautes Études en Sciences Sociales*) in CIRED lab (*Centre International de Recherche sur l'Environnement et le Développement*).

**Dissertation:** “Organizational changes for sub-Saharan African agriculture: essays on cotton sector reforms and index-based insurances”.

**Committee:** Catherine Araujo-Bonjean, Jean-Marie Baland, Jean-Charles Hourcade, Serge Janicot, Philippe Quirion (advisor), Katheline Schubert, Eric Strobl.

**2007 - 2008:** Master's degree (*Sciences Po*) in Environment, Sustainable Development and Risks.

**2005 - 2006:** Master's degree (*La Sorbonne*) in Macroeconomics, major: Labour Market.

**2003 - 2005:** Bachelor's degree (*École Normale Supérieure de Cachan*) in Economics, joined in 2003 (12<sup>th</sup>).

## Publications

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### Articles in peer review journals

- Escalating impacts of climate extremes on critical infrastructures in Europe, Forzieri, G., A. Bianchi, F. Batista, M-A. Marin-Herrera, A. Leblois, C. Lavalle, J. Aerts and L. Feyen, 2017 [[link abstract EGU](#), [link paper: proofs](#)], forthcoming in *Global Environmental Change*.
- What has driven deforestation in developing countries since the 2000s? Evidence from new remote sensing data, *World Development*, 2017, with J. Wolfersberger & O. Damette. [[link paper](#), [pre-print](#)].
- A. Dragicevic, A. Lobianco and A. Leblois. An application of the Markowitz mean-variance model for forest planning to explicitly account of risk aversion in productivity-risk trade off, *Forest Policy and Economics*, 2016, 64, p. 25-34, [[link](#), [pre-print](#)].
- F. Kowmoski, A. Leblois & B. Sultan. Perceptions of recent rainfall changes in Niger: a comparison between climate-sensitive and non-climate sensitive households, *Climatic Change*, 2015, [[link](#), [pre-print](#)].
- C. Delpeuch & A. Leblois. The elusive quest for supply response to cash-crop market reforms in sub-Saharan Africa: the case of cotton, *World Development*, 2014, Vol. 64, pp. 521-537, previously *World Bank Research Working Paper* No. 5861. [[link](#), [pre-print](#)].
- Price vs. weather shock hedging for cash crops: ex ante evaluation for cotton producers in Cameroon, with P. Quirion & B. Sultan, *Ecological Economics*, 2014, Vol. 101, pp. 67-80 [[link](#), [pre-print](#)].
- Weather-index drought insurance: an ex ante evaluation for millet growers in Niger, with P. Quirion, A. Alhassane and S. Traoré, *Environmental and Resource Economics*, 2014, Vol. 57, Issue 4, pp. 527-551 [[link](#), [pre-print](#)].
- Agricultural insurances based on meteorological indices: realizations, methods and research agenda, with P. Quirion, *Meteorological Applications*, 2013, Vol. 20(1), pp. 1-9. [[link](#)].
- Sub-Saharan African cotton policies in retrospect, with C. Delpeuch, *Development Policy Review*, 2013, Vol. 31(5), 617-642, [[link](#)].
- L'Assurance agricole indicielle en Afrique de l'Ouest, principes, premières réalisations et perspectives, with B. Muller, M. Sall, A. Baldé, M. Fall, P. Kouakou, et F. Affholder, 2013, *Agronomie Africaine*, Numéro spécial (6) sur les changements climatiques : 95 - 111, [[lien](#)].

- Vulnérabilité et adaptation de l'agriculture sahélienne au climat au sein du programme AMMA, with B. Sultan, A. Alhassane, B. Barbier, C. Baron, M. Tsogo, A. Berg, M. Dingkuhn, J. Fortilus, M. Kouressy, R. Marteau, B. Muller, P. Oettli, P. Quirion, P. Roudier, S. B. Traore and M. Vaksman, *La météorologie*, 2012, Série 8, p. 64-72 [[lien](#)].

### Contributions to edited volumes

- Remote-sensing evidence about national deforestation rates in developing countries: what can be learned from the last decade. *Earth Systems and Environmental Sciences*, edited by Scott Elias, Global Change section editor : Dominick DellaSala, forthcoming.
- Les assurances agricoles fondées sur des indices météorologiques, with P. Quirion, in V. Ancey., B. Dedieu, M. Antona, I. Avelange, G. Azoulay, I. Darnhofer, B. Hubert and B. Lémery. 2013. *Agir en Situation d'Incertitude*, ed. Peter Lang, col. Eco Polis, vol. 17.
- Assurances, aléas et risques, with B. Muller, in *Le développement durable à découvert*, Sous la direction de Agathe Euzen, Laurence Eymard Françoise & Gaill, CNRS édition, 2013.

### Proceedings and reports

- Weather-index insurance for a cash crop in a regulated sector: ex ante evaluation for cotton producers in Cameroon, in The challenges of index-based insurance for food security, *Proc. of the JRC/IRI workshop*, JRC, Ispra, 2 and 3 May 2012. EC/JRC Scientific and Technical Reports Series, 2013, with P. Quirion & B. Sultan. [[link](#)].
- Resilience of large investments and critical infrastructures in Europe to climate change, Final report for DG CLIMA (EU), 2015, with 'Floods' and 'Land use' teams at JRC, [[link](#)].
- Review of economic instruments in risk reduction, Report for ENHANCE (Enhancing Risk Management Partnerships for Catastrophic Natural Disasters in Europe) project WP 5, 2015, with Michel Koehler (PCC), Reinhard Mechler (IIASA), Wouter Botzen (IVM), Swenja Surminski (LSE), Manuel Pulido Velquez (UPVLC), Adriana Keating (IIASA), Junko Mochizuki (IIASA), Maria Manes (HZG), Roger Cremades (HZG) and Jim Hall (UOX), [[link](#)]

### Work in progress

- How may climate change influence farmers' demand for index-based insurance? with T. Le Cotty & E. Maître d'Hotel, *FARMAF* project, *R&R*.

- Forest owners and managers preferences (risk and time their potential interaction): does it impact silvicultural practices ? (FOREST-TRIP project)
- Deforestation in RDC: how do logging concessions concentrate deforestation ?, with Margaux Vinez (PSE) and Ameet Morjaria (Northwestern U.).
- Effectiveness of weather index-based insurance for smallholders in Ethiopia, with Federica Di Marcantonio and Wolfgang Göbel, submitted.
- Farmers' adaptation behaviour to climate change in the Sudano-Sahelian zone in Cameroon: a multivariate Probit approach, with William Nemkenang koguia, Kane Gilles quentin, Ngo nonga Fidoline, submitted.
- Food security impact of remote-sensed index-based insurance for herders (IBLI) in Kenya, with Federica Di Marcantonio.

### Unpublished work

Endogenous wage returns to training in African manufacturing, with C. J. Nordman, *SSRN working paper*, 2008 [[link](#), [link paper](#)].

### Non-academic publications / Media coverage

- IRD [scientific news report](#) and *Sciences au Sud* article in 2013 about the future of cotton cultivation in Cameroon (with E. Gerardeaux and B. Sultan).
- [article](#) about policy options for cotton in Western Africa, *The Guardian* for development professionals in 2014, (with C. Delpuech and B. Shepherd)
- Interview for an [actuary periodical](#): *l'Actuariel* of June 2012, on climatic risks.
- Presentation at *Agricultural Risk Management Chair conference*.

### Work experiences

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#### Teaching experience

**2018**: 3h [lecture](#) on weather index-based insurances in the Sahel **2016-2017**: *Risk and incertitude* (RFF, AgroParisTech, M2 + Universit de Lorraine, M1), *Sustain. dev. & public pol.* (M1) [IPAG](#) Nancy & *Forest econ.* (M2) [EDDE](#), Paris X.

**2015-2016:** *Sustainable dev. & public policies* (M1) IPAG Nancy & *Forest econ.* (M2) EDDE Paris X, *Environmental economics* at Mines de Nancy (M1).

**2014-2015:** *Sustain. dev. & public pol.* (M1) IPAG Nancy & *Forest econ.* (M2) EDDE Paris X.

**2010-2011:** *Financial tools* (L3, M1) & *Development economics* (M1) at La Sorbonne.

**2009-2010:** *Macroeconomics* at La Sorbonne & *Insurance and risks* at AgroParisTech (both M1).

**2008-2009:** *Statistics* (L1) & *Development economics* (M1) at La Sorbonne.

**2007-2008:** T.A. at Sciences Po in two *International economic relations* courses lectures of Pr. P.J.J. Welfens and Pr. F. Saraceno (L2) and organization of the first ‘Global classroom’ in sustainable development (M1), video conference for MDP (joint program including Sc. Po and *SIPA* at Columbia); *Development economics* (M1) at La Sorbonne; *General economics* (BTS) at a school of informatics.

### **Scientific supervision and responsibilities**

- PhD co-supervision of Pauline Castaing, 2017, CERDI, Clermont-Ferrand.
- PhD comitee of Solène Masson: “Exploring the links between soy crop and deforestation”, 2016, AMSE, Marseille.
- PhD defense comitee member (December 2016): Alda Kabre: “Trois essais d’économie politique: sur le vote et le consentement à l’impôt”, under the supervision of J.F. Laslier, École Polytechnique, Paris.
- Master thesis supervision: Alda Patoinnéwendé Kabre (Master EDDE, AgroParisTech): Weather insurance in Cameroon: a supply side analysis (June-Sept. 2013).
- Bi-monthly seminar organisation (LEF, INRA Nancy, 2015-2016, 2016-2017, & 2017-2018).
- Ad hoc referee for *Ecological Economics*, *Environment & Development Economics*; *Food Policy*; *Agricultural Economics*; the *African Development Review*; *Weather, Climate & Society*; *Natural Hazards* (NHAZ); *Natural Hazards & Earth System Sciences* (NHES); *Meteorological Applications*; *Revue d’Économie Politique*; *Climate & Development*; *Sécheresse / Science*

& changements planétaires ; Économie Rurale; the *Journal of Geography & Regional Planning*; the *Agriculture Science Research Journal*; *Geosciences*; *International Journal of Pest Management*; *Economies*; *CyberGeo: European Journal of Geography*; *VertigO*: review of environmental sciences from the *Institut des sciences de l'environnement* (Université du Québec à Montréal); *Interdisciplinary Sciences: Computational Life Sciences*; the *Journal of Agricultural Science & Technology* (JAST); the Swiss National Science Foundation (SNSF: r4d open call); the French Research Agency (ANR, in 2010, 2014 & 2015) and for the 2011 and 2012 (SREX) *International Panel on Climate Change* (IPCC) special reports.

## Other experiences

- Visiting fellow at CRED (FUNDP, Namur) within AMID (Actors, Markets, and Institutions in Developing Countries: A micro empirical approach) network facility: a Marie-Curie Fellowship (Sept. 2011-March 2012).
- Field work (ILO-EUDN grant): household survey implementation and risk aversion elicitation in the Cameroonian cotton zone (Nov.-Dec. 2011).
- Research assistance at DIAL (a center for development economics research of the IRD, *Institut de Recherche pour le Développement*) on migrations and diasporas (Mirem database, from the European Institute of Florence) and on employer-employees matched databases (the World Bank's *RPED*) in Africa (July 2007 - Feb. 2008).
- Research assistance at *INSERM* (*Institut National de la Santé et de la Recherche Médicale*, French institute of health and medical research), Marseilles (June - Sept. 2004).

## Conferences and seminars

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### Conference presentations

- Environmental and development economics, U. Pau, Bayonne, July 2018 (scientific comitee).
- Faire face aux risques en agriculture: Paris, Feb. 2018, *Chaire Agricultural Risk Management Chair*, U. LaSalle.
- **MADEV** (Mathematics and development), Académie des Sciences, Rabat, Morocco, Oct. 2017.
- **FAERE** (French Association of Environmental and Resource Economists) conference, Nancy, Sept. 2017.

- **EAERE** (European Association of Environmental and Resource Economists) conference, Athenes, June 2017.
- **FAERE** (French Association of Environmental and Resource Economists) conference, Bordeaux, Sept. 2016.
- Journées internationales du risque, Niort, June 2016.
- **EAERE** (European Association of Environmental and Resource Economists) conference, Helsinki, June 2015.
- **ADRES** conference at BETA, Strasbourg, Feb. 2013.
- **RES** (British association of economists) PhD presentation meeting, London, Jan. 2013.
- **AFSE** (French association of economists) congress, Paris, June 2012.
- **EAERE** (European Association of Environmental and Resource Economists) conference, Toulouse, June 2012.
- **AMMA** (African Monsoon Multidisciplinary Analysis) conference, Toulouse, June 2012.
- **JRC** (EU research center) technical meeting on weather index-based insurance, Ispra (Italy), May 2012.
- **CSAE** Conference, Oxford, March 2012.
- **AFSE** (French association of economists) congress, Paris, Sept. 2011.
- **EAAE** congress, Zurich, Sept. 2011.
- **DIAL** international conference on ‘Shocks in developing countries’, Paris, June 2011.
- Invited: ‘Agriculture and Shared Growth in Africa’, **Brookings Institution**, Washington, Jan. 2011.
- ‘Environment and Natural Resources Management in Developing and Transition Economies’, Clermont-Ferrand (**CERDI**), Nov. 2010.
- ‘Agir en Situation d’Incertitude’, Montpellier (**CIRAD**), Nov. 2010.
- ‘Adaptation au Changement Climatique de l’Agriculture et des Écosystèmes’, Clermont-Ferrand (**INRA**), Oct. 2010.

- **EAAE** PhD workshop, Giessen (Germany), Sept. 2009.
- **AMMA** (African Monsoon Multidisciplinary Analysis) conference, Ouagadougou (Burkina Faso), July 2009.

### Recent Seminars

- Smart-Lereco seminar (INRA, Rennes).
- DIAL seminar (IRD, Paris).
- LAMETA seminar (INRA, Montpellier).
- ALISS seminar (INRA, Ivry s/ Seine).
- Séminaire CIRED (2 presentations).
- CRED workshop (Namur University, 2 presentations).
- UCL workshop (Université Catholique de Louvain, Louvain la Neuve).
- Sustainable Development, Environment and Public Economics, (EconomiX, Paris X).
- Seminar in Environmental and Energy Economics (Paris School of Economics).
- LEDa at Dauphine.
- IEDES (Paris 1, UMR Développement & Société)
- Séminaire ENGREF au LEF (INRA)
- Sustainable economics seminar, Ecole Polytechnique.

### Personal skills

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- Foreign Languages: English, (TOEFL IBT: 92/120, in Dec. 2006) German and Italian (basics).
- Softwares:
  - ★ scripts writing (Linux & Windows).
  - ★ Stata, Matlab/Scilab and ArcGIS/QGIS, Latex, Inkscape.
- Other: database management, especially matching of world gridded climate databases and daily rainfall data with macro and micro socio-economic data.



## Grants

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- Forest-TRIP Project (SSD INRA and Labex ARBRE): FORESTry policies design for under climate change: improving Time and Risk Preferences measures, supervision of 2 interns.
- Post-doctoral (3 years) grant of the European Commission: ISPRA joint research center (JRC, Italy).
- Post-doctoral grant (1 year), CNRS (2012-2103).
- AMID, Marie-Curie pre-doctoral (six months) fellowship in Namur (2011-2012).
- Joint ILO's Microinsurance Innovation Facility and European Development Research Network (EUDN) research grant (2011).
- 3-years doctoral grant from the French Ministry of Research and Higher Education (2008-2011).