

Sébastien FOU DI
Research Fellow BC3

CONTACT INFORMATION

Address: Basque Centre for Climate Change BC3 – 48940 Leioa, Spain
Phone: +34 944 014 690
Email: sebastien.foudi@bc3research.org

RESEARCH FIELDS

Economics of risks and uncertainty related to climate change
Agricultural and natural resources economics
Ecosystem services and biodiversity

EDUCATION

2008 Ph.D. in Economics, Toulouse School of Economics
Dissertation title: Economic analysis of agricultural ecosystem services. Application to soil biota generation
Advisor : Alban Thomas
2003 M.Phil in Economics, Toulouse School of Economics
2002 Master II in Economics
2001 Master I in Economics, University of Toulouse

PROFESSIONAL EXPERIENCE

RESEARCH

2018 - Research fellow at the Basque Centre for Climate Change, BC3, Spain
2010 -2018 Post doctoral researcher at the Basque Centre for Climate Change, BC3, Spain
2008-2009 Post Doctoral fellows at CEMAGREF, UMR G-EAU, Montpellier, France
2005-2007 Research/Teaching Assistant, University of Toulouse
2002-2005 Doctoral scholar of the French Government, University of Toulouse (LERNA-TSE)
2001 Internship in development economics, ARQADE, University of Toulouse

PUBLICATIONS

JOURNAL ARTICLES

Olazabal, M., Neumann, M.B., Foudi, S. and Chiabai, A. 2018. Transparency and reproducibility in participatory systems modelling: the case of fuzzy cognitive mapping. *Systems Research and Behavioral Science*. on-line <https://doi.org/10.1002/sres.2519>

Olazabal, M., Chiabai, A., Foudi, S. and Neumann, M.B. 2018. Emergence of new knowledge for climate change adaptation. *Environmental Science and Policy* 83: 46-53

Sidibé, Y., Foudi, S., Pascual, U., Termansen, M. 2018 Adaptation to climate change in rainfed agriculture in the global South: Soil biodiversity as natural insurance. *Ecological Economics* 146: 588-596

Foudi, S., Osés-Eraso, N., Galarraga, I. 2017. The effect of flooding on mental health: Lessons learned for building resilience. *Water Resources Research* 53: 5831–5844.

Foudi, S., Spadaro, J.V., Chiabai, A., Polanco-Martínez, J.M., Neumann, M.B. 2017. The climatic dependencies of urban ecosystem services from green roofs: Threshold effects and non-linearity. *Ecosystem Services*. 24. 223-233.

Foudi, S., Osés-Eraso, N., Tamayo, I. 2015. Integrated spatial flood risk assessment: The case of Zaragoza. *Land Use Policy*. Vol 42: 278-292.

Pascual, U., Termansen, M., Hedlund, K., Brussaard, L., Faber, J., Foudi, S., Lemanceau, P., Liv-Jørgensen, S. 2015. On the value of soil biodiversity and ecosystem services. *Ecosystem Services*. Vol 15: 11-18.

Foudi, S. and Erdlenbruch, K. 2012. The role of irrigation in farmers' risk management strategies in France. *European Review of Agricultural Economics*. Vol 39: 439-457.

Foudi, S. 2012. The role of farmers' property rights in soil ecosystem services conservation. *Ecological Economics*. Vol 83: 90-96.

BOOK CHAPTERS

Chiabai, A. Foudi, S., Spadaro, J.V. and Taylor, T. 2018. Addressing health impacts and adaptation in Europe. *Adapting to Climate Change in Europe - Exploring Sustainable Pathways - From Local Measures to Wider Policies*. Edited by Sanderson, H, Hildén, M., Russel, D., Penha-Lopes, G. and Capriolo, A. Elsevier. ISBN 9780128498873

Foudi, S. and Osés-Eraso, N. 2014. Flood risk management: assessment for prevention with hydro-economic approaches in *Routledge Handbook of the Economics of Climate Change Adaptation*, edited by A. Markandya, I. Galarraga and E. Sainz de Murieta. London and New York. Routledge. ISBN 978-0-415633-11-6.

Foudi, S. 2009. Estimating the interactions of soil biota and agricultural practices in *Agrobiodiversity and Economic Development*, edited by A. Kontoleon, U. Pascual and M. Smale. Routledge ISBN 978-0-415-46505-2.

WORKING PAPERS AND REPORTS

M.P. McCartney, S. Foudi, L. Mutuwatte, A. Sood, G. Simons and K. Vercruyssen. 2018. *Water, Natural and Built Infrastructure, and Ecosystem Services in the Tana River Basin*. IWMI Working paper, *forthcoming*.

Osés Eraso, N., Foudi, S., Galarraga, I., 2012. Análisis del impacto socio económico del daño por inundación en la Ría de Nervión: un cambio de escenario ante la apertura del Canal de Deusto. Informe de Avance del Proyecto. BC3 Basque Centre for Climate Change, Bilbao.

Foudi, S. Exploitation of soil biota ecosystem services in agriculture : a bioeconomic approach. BC3 Working Paper 2012/02.

POLICY BRIEFINGS

Olazabal, M. Sainz de Murieta, E. Foudi, S. Chiabai, A., Galarraga, I. Balbi, S. Vogel, L. Román, M.V. and Markandya, A. 2016. Urban research at BC3: How climate change science can support urban policy making BC3 Policy Briefings 2016-04

Foudi, S. 2013. Flood risk management: What are the main drivers of prevention? BC3 Policy Briefings 2013-02

Foudi, S. and Galarraga, I. 2012. Resilience in water management. IWRM-net Policy Briefs.

Foudi, S. and Galarraga, I. 2012. Socioeconomic Impacts of Flood in the Ebro River Basin. DG ECHO Policy Briefs.

EDITORIAL RESPONSIBILITIES

- Editor of BC3 Policy Briefings

- Reviewer for Ecological Economics, Annals of Operations Research, Mitigation and Adaptation Strategies for Global Change, Journal of Agricultural Economics, Natural Hazards Earth System Sciences, Sustainability.

ORGANIZATIONS OF WORKSHOPS

- Workshop for decision makers: "Flood risk assessment in the Ebro river basin. An application to the city of Zaragoza. 16 November 2011, Zaragoza.

RESEARCH PROJECT PARTICIPATION

WISE UP - Water Infrastructure Solutions from Ecosystem Services Underpinning Climate Resilient Policies and Programmes. Period 2013-2018.

CONSEED - Consumer Energy Efficiency Decision Making. Call: H2020-EE-2016-2017 - ENERGY EFFICIENCY CALL 2016-2017. Period 2016-2019.

ENABLE - Enabling the Energy Union through understanding the drivers of individual and collective energy choices in Europe. Started 2016-2019.

RESIN - Climate Resilient Cities and Infrastructures. H2020. Period 2015-2018.

BASE - Bottom-up climate adaptation strategies towards a sustainable Europe. European Union Seventh Framework Programme (FP7/2007-2013), DG ENV.2012.6.1-3. Period 2012-2016

ECOFINDERS- Ecological function and biodiversity indicators in European soils. European Union Seventh Framework Programme (FP7/ 2007-2013) under the grant agreement 264 465. Period 2011-2014.

PREEMPT - Policy-relevant assessment of socio-economic effects of droughts and floods. European Commission, DG Humanitarian and Aid and Civil Protection - ECHO under the grant agreement 070401/2010/579119/SUB/C4. Period 2011-2012

Water2Adapt - Resilience enhancement and water demand management for climate change adaptation. ERA-net funding initiative, 2nd Joint Call for Research on IWRM. Period 2010-2012

RISECO - Resource economics, agricultural water scarcity and drought risk management. Period 2009-2013

COMMUNICATION AT CONFERENCES

VII Conference of the Spanish-Portuguese Association of Resource and Environmental Economics (AERNA), Aveiro, Portugal, 2016

European Climate Change Adaptation Conference (ECCA), Copenhagen, Denmark, 2015

First Global Soil Biodiversity Conference, Dijon, France, 2014

VI Conference of the Spanish-Portuguese Association of Resource and Environmental Economics (AERNA), Girona, Spain, 2014

Resilience 2014, Montpellier, France, 2014

European Geoscience Union meeting, Viena, Austria, 2012

Seminar of microeconomics and microeconometrics of agricultural production, Rennes, France, 2009

Journées Jeunes Chercheurs INRA, (France) 2007, 2008

EAAE PhD Workshop, Rennes (France) 2007

Journées de Microéconomie Appliquée, Fribourg (Switzerland) 2007

The 8th BioEcon conference, Cambridge (England) 2006

The 3rd world congress of Environmental and Resource Economists, Kyoto (Japan) 2006

Conference on Sustainable Resource Use and Economics Dynamics, Ascona (Switzerland) 2006

The 80th conference of the Agricultural Economic Society, Paris (France) 2006

The 7th BioEcon conference, Cambridge (England) 2005

The 12th Ulvön conference on Environmental Economics, Umea (Sweden) 2005

Journées de Microéconomie Appliquée, Hammamet (Tunisia) 2005

HONOURS

2008-2009 Cemagref Post Doctoral Fellowship

2002-2005 Doctoral Scholarship, French Government