

Sébastien FOU DI

Research Fellow

CONTACT INFORMATION

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RESEARCH FIELDS

Economics of risks and uncertainty

Agricultural, energy and natural resources economics

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

- Martinez-Juarez, P. Foudi, S., Galarraga, I., Osés-Eraso, N. and Cerdá, E., 2020. Cambio climático, riesgo de inundación y medidas de adaptación: retos en la valoración de daños y evaluación de medidas. *Ekonomiaz* 97, 191-211.
- López-Bernabé, E., Foudi, S., Galarraga, I., 2020. Mind the map? Mapping the academic, citizen and professional stakeholder views on buildings and heating behaviour in Spain. *Energy Research & Social Science* 69, 101587. <https://doi.org/10.1016/j.erss.2020.101587>
- Silvestri, A., Foudi, S., Galarraga, I., 2020. Determinants of travel mode choice in Europe: Results from a survey on routine mobility. *Papeles de Energía* 9
- McCartney, M., Foudi, S., Muthuwatta, L., Sood, A., Simons, G., Hunink, J., Vercruyssen, K., Omuombo, C., 2019. Quantifying the services of natural and built infrastructure in the context of climate change: the case of the Tana River Basin, Kenya. International Water Management Institute (IWMI). <https://doi.org/10.5337/2019.200>
- Olazabal, M., Chiabai, A., Foudi, S., Neumann, M.B., 2018. Emergence of new knowledge for climate change adaptation. *Environmental Science & Policy* 83, 46–53. <https://doi.org/10.1016/j.envsci.2018.01.017>
- Olazabal, M., Neumann, M.B., Foudi, S., Chiabai, A., 2018. Transparency and Reproducibility in Participatory Systems Modelling: the Case of Fuzzy Cognitive Mapping. *Systems Research and Behavioral Science* 35, 791–810. <https://doi.org/10.1002/sres.2519>
- 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. <https://doi.org/10.1016/j.ecolecon.2017.12.017>
- 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. <https://doi.org/10.1002/2017WR020435>
- Foudi, S., Spadaro, J.V., Chiabai, A., Polanco-Martínez, J.M., Neumann, M.B., 2017b. The climatic dependencies of urban ecosystem services from green roofs: Threshold effects and non-linearity. *Ecosystem Services* 24, 223–233. <https://doi.org/10.1016/j.ecoser.2017.03.004>
- Foudi, S., Osés-Eraso, N., Tamayo, I., 2015. Integrated spatial flood risk assessment: The case of Zaragoza. *Land Use Policy* 42, 278–292. <https://doi.org/10.1016/j.landusepol.2014.08.002>
- Pascual, U., Termansen, M., Hedlund, K., Brussaard, L., Faber, J.H., Foudi, S., Lemanceau, P., Jørgensen, S.L., 2015. On the value of soil biodiversity and ecosystem services. *Ecosystem Services* 15, 11–18. <https://doi.org/10.1016/j.ecoser.2015.06.002>
- Foudi, S., Erdlenbruch, K., 2012. The role of irrigation in farmers' risk management strategies in France. *Eur Rev Agric Econ* 39, 439–457. <https://doi.org/10.1093/erae/jbr024>
- Foudi, S., 2012. The role of farmers' property rights in soil ecosystem services conservation. *Ecological Economics* 83, 90–96. <https://doi.org/10.1016/j.ecolecon.2012.08.015>

BOOK CHAPTERS

Bouwer L, Capriolo A, Chiabai A, Foudi S, Garrote L, Harmácková ZV, Iglesias A, Jeuken A, Olazabal M, Spadaro JV, Taylor T, Zandersen M., 2018. Upscaling the impacts of climate change in different sectors and adaptation strategies. In: *Adapting to Climate Change in Europe 1st Edition. Exploring Sustainable Pathways - From Local Measures to Wider Policies*. 1st ed. Edited by: Sanderson H, Hildén M, Russel D, Penha-Lopes G, Capriolo A. Amsterdam. Elsevier. ISBN 978-0-12-849887-3.

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

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.

EDITORIAL RESPONSIBILITIES

- Editor of BC3 Policy Briefings Programme

- Reviewer for *Ecological Economics*, *Water Research*, *Agricultural and Resource Economics Review*, *Energy Efficiency*, *Annals of Operations Research*, *Mitigation and Adaptation Strategies for Global Change*, *Journal of Agricultural Economics*, *Natural Hazards Earth System Sciences*, *Sustainability*, *Plos One*, *International Journal of Disaster Risk Reduction*.

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

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

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

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

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 French Association of Environmental and Resources Economists, Online, 2020

XV Congreso de la Asociación Española para la Economía Energética (AEEE), Toledo, Spain, 2020

The 16th International Association for Energy Economics (IAEE), Ljubljana, Slovenia, 2019 (co-author of 2 papers)

XIV Congreso de la Asociación Española para la Economía Energética (AEEE), A Coruña, Spain, 2019 (co-author of 3 papers)

VII Conference of the Spanish-Portuguese Association of Resource and Environmental Economics (AERNA), Madrid, Spain, 2018 (paper's co-author)

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