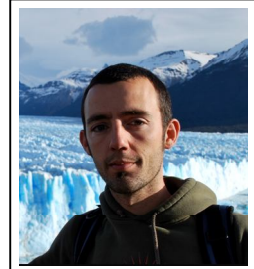


## Jordi Garcia-Gonzalo

### CURRICULUM VITAE – 14.09.2009

#### PERSONAL INFORMATION

**Surnames:** Garcia-Gonzalo  
**Name:** Jordi  
**Date of birth:** 24/07/1977  
**Place of birth:** Catalonia, Spain



#### CONTACT INFORMATION

FORCHANGE - Forest Ecosystem Management Under Global Change  
 Departamento de Engenharia Florestal - Instituto Superior de Agronomia  
 Universidade Técnica de Lisboa  
 Tapada da Ajuda, 1349-017 Lisboa  
 Portugal  
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#### LANGUAGES

<b>Spanish</b>	mother tongue	<b>Portuguese</b>	average level
<b>Catalan</b>	mother tongue	<b>Finnish</b>	elementary
<b>English</b>	excellent		
<b>French</b>	average level		

#### EDUCATION

**February 2004 – June 2007: PhD studies at the Faculty of Forest Sciences - University of Joensuu (Finland). The PhD thesis was defended on June 1<sup>st</sup>.**

**Title of the PhD** is: Effects of management on timber production and carbon stocks in a boreal forest ecosystem under changing climate: a model based approach.

**July 2005: Escola Técnica Superior d'Agricultura, University of Lleida (Spain)**

**M. Sc. degree in Agricultural Engineering.** University of Lleida (Ingeniero Agrónomo).

**September 2002 - January 2004, University of Joensuu (Finland)**

**M. SC. Degree (Agr. and For.)** specialised in Environmental Management of forests, Faculty of Forestry, University of Joensuu.

**September 2002, Escola Técnica Superior d'Agricultura University of Lleida (Spain)**

**M. SC. Degree in Forestry engineering** at the University of Lleida (Ingeniero de Montes)

\*Including one year 2001 - June 2002 which I was granted with a Socrates grant by the University of Lleida to stay one academic year at the University of Joensuu (Finland).

**September 1995– September 1999, University of Girona (Spain)**

**Bachelor Science in Agricultural engineering** at the University of Girona (Ingeniero Técnico Agrícola).

## **ADDITIONAL STUDIES-COURSES**

**2001. 19<sup>th</sup> -23<sup>rd</sup> of March.** Basic course in forest fires organized by University of Madrid, Forestry department.

**2001. March to June.** Course about Forestry techniques organised by University of Lleida and Catalan Forestry consortium.

**2007. 5<sup>th</sup> – 9<sup>th</sup> of November.** EFIMED course on Modelling Mediterranean Forest Stand Dynamics For Forest Management organised by the Instituto Superior de Agronomia (Lisbon, Portugal) and EFIMED.

## **WORKING EXPERIENCE**

### **CURRENT POSITION**

**31<sup>st</sup> May 2008.....: Technical University of Lisbon. Instuto Superior de Agronomia. Lisbon, Portugal**

**Post-doc researcher position:** Working within the FORCHANGE (Forest Ecosystem Management Under Global Change) group at the Departamento de Engenharia Florestal - Instituto Superior de Agronomia. Lisbon (Portugal).

Aiming at the development of methods for forest management including economic, social and ecological aspects in a context of global change (climate, socio-economic, political changes...). Different aspects are taken into account, for example: agro-forestry systems, multiple products, services and sustainability, different risks (fires), multiple ownership systems... In this context, one of the objectives is to develop information and decision support systems (DSS) for forest project evaluation and for strategic, tactical and operational management planning.

### **PREVIOUS WORKING EXPERIENCE**

**1<sup>st</sup> January – 31<sup>st</sup> May 2008: European Forest Institute, Joensuu, Finland**

**Researcher:** Working at EFI as a post-doc at different projects: i) researcher at EFORWOOD project. EFORWOOD - Tools for Sustainability Impact Assessment of the Forestry-Wood Chain; FP6-518128-2, 2005-2009, ii) Project coordinator in Climate change tender -DG AGRICULTURE AND RURAL DEVELOPMENT TENDER N° AGRI-2007-G4-06.

**1<sup>st</sup> February 2004 – December 2007\* : Faculty of Forestry, University of Joensuu, Finland**

**Researcher (PhD student position February to June 2007 and Post doc position June to December 2007):** Working within the Centre of Excellence for Forrest Ecology and Management (2004-2005), led by Prof. Seppo Kellomäki, Faculty of Forestry, University of Joensuu, Finland.

\* This period includes a PhD researcher position within the Graduate School in Forest Sciences 1.01-2006 - 31.12.2007 and PhD scholarship from the Faculty of Forestry.

\*\*During 2007 I was also part time working at the European Forest Institute, Joensuu (Finland)

**Researcher** working within the EFORWOOD project. EFORWOOD - Tools for Sustainability Impact Assessment of the Forestry-Wood Chain; FP6-518128-2, 2005-2009.

**July 2003 – September 2003, July 2002 – September 2002, and July 2001 – October 2001:**

**Department of Agriculture in plant health, Government of Catalonia**

**Technique against *Erwinia Amylovora* disease.**

**September 2002 – May 2003: European Forest Institute (EFI), Finland**

**Researcher Trainee** in Forest ecosystem and management area with the following research tasks:  
Management guidelines for different countries in Europe to develop the EFISCEN model system.

**June - October 2000: Department of Forest Fires Prevention, Government of Catalonia**

**Forest fireman.**

## **SCIENCES AREAS OF INTEREST**

Methods for forest management including economic, social and ecological aspects in a context of global change (climate, socio-economic changes...).

Development of information and decision support systems (DSS) for forest project evaluation and for strategic, tactical and operational management planning.

Development of methodologies to formulate forest management plans targeting multiple objectives and multiple decision makers and different risks (e.g. fires).

## **COMPUTER SCIENCES**

Knowledge of Word, Excel, Acces, Internet, Windows

Knowledge of AutoCAD

Knowledge of GIS (Idrisi, Arc View and Arc Map)

## **PUBLICATION LIST**

### **1. Papers in internationally reviewed journals (In print/accepted)**

**Garcia-Gonzalo, J.**, Effects of management on timber production and carbon stocks in boreal forest ecosystem under changing climate: a model based approach. 2007. Thesis dissertation. *Dissertationes Forestales* 42, The Finnish Society of forest Science. ISBN 978-951-651-173-6. <http://www.metla.fi/dissertationes/df42.htm>

**Garcia-Gonzalo, J.**, Peltola, H., Briceño-Elizondo, E., Kellomäki, S. 2007. Changed thinning regimes may increase carbon stock under climate change: A case study from a Finnish boreal forest. *Climatic Change*. Volume 81, Issues 3-4, pp 431-454. <http://dx.doi.org/10.1007/s10584-006-9149-8>

**Garcia-Gonzalo, J.**, Peltola, H., Zubizarreta-Gerendiain, A., and Kellomäki, S. 2007. Impacts of forest landscape structure and management on timber production and carbon stocks in the boreal forest ecosystem under changing climate. *Forest Ecology and Management* Volume 241, Issues 1-3, pp 243-257. <http://dx.doi.org/10.1016/j.foreco.2007.01.008>

**Garcia-Gonzalo, J.**, Peltola, H., Briceño-Elizondo, E., Kellomäki, S. 2007. Effects of climate change and management on timber yield in boreal forests, with economic implications: A case study. *Ecological Modelling*, Volume 209, Issues 2-4, pp 220-234. <http://dx.doi.org/10.1016/j.ecolmodel.2007.06.021>

**Garcia-Gonzalo, J.**, Jäger, D., Lexer, M.J., Peltola, H., Briceño-Elizondo, E., and Kellomäki, S. 2008. Does climate change affect optimal planning solutions for multi-objective forest management?. *Allgemeine Forst und Jagdzeitung (AFJZ)*. Volume 179. Issue 5-6/2008, pp 78-95.

Briceño-Elizondo, E., **Garcia-Gonzalo, J.**, Peltola, H., Matala, J., Kellomäki, S. 2006. Sensitivity of growth of Scots pine, Norway spruce and silver birch to climate change and forest management in boreal conditions. *Forest Ecology and Management*. Volume 232, Issues 1-3, pp 152-167. <http://dx.doi.org/10.1016/j.foreco.2006.05.062>

Briceño-Elizondo, E., **Garcia-Gonzalo, J.**, Peltola, H., Kellomäki, S., 2006. Carbon stocks and timber yield in two boreal forest ecosystems under current and changing climatic conditions subjected to varying management regimes. *Environmental Science and Policy*, Volume 9, Issue 3, pp 237-252. <http://dx.doi.org/10.1016/j.envsci.2005.12.003>

Briceño-Elizondo, E., Jäger D., Lexer, M., **Garcia-Gonzalo, J.**, Peltola, H., Kellomäki, S. 2008. Multi-criteria evaluation of multi-purpose stand treatment programmes for Finnish boreal forests under changing climate. *Ecological Indicators*, Volume 8, Issue 1, pp 26-45. <http://dx.doi.org/10.1016/j.ecolind.2006.12.001>

Zeng, H., **Garcia-Gonzalo, J.**, Peltola, H., and Kellomäki, S. The effects of forest structure on the risk of wind damage in a boreal forest ecosystem. *Annals of Forest Science*. In print.

Marcus Lindner, Tommi Suominen, Taru Palosuo, **Jordi Garcia-Gonzalo**, Peter Verweij, Sergey Zudin, Risto Päivinen. ToSIA – A Tool for Sustainability Impact Assessment of Forest-Wood-Chains. Submitted. Ecological modelling. In print.

Lindner, M, Maroschek, M., Netherer, S., Kremer, A., Barbatie, A., **Garcia-Gonzalo, J.**, Seidl, R., Delzon, S., Corona, P., Kolström, M., Lexer, M.J., Marchetti, M. Potential impacts, adaptive capacity, and vulnerability of forests to climate change in Europe. *Forest Ecology and Management*. In print.

Borges P.J., Fragoso R., **Garcia-Gonzalo J.**, Borges J. G., Marques S., Lucas, M.R. Assessing impacts of Common Agricultural Policy changes on regional land use patterns with a decision support system. An application in Southern Portugal. *Forest Policy and Economics*. In print.

## 2. Papers in books

**Garcia-Gonzalo, J.**, Lexer, M.J., Peltola, H., Kellomäki, S. Designing a forested landscape in Finland under different climate scenarios. In von Gadow, K and Pukkala, T (Eds), *Designing Green Landscapes*. SpringerPub. ISBN: 978-1-4020-6758-7 (Print) 978-1-4020-6759-4 (Online). Volume 15: 215-241. [http://dx.doi.org/10.1007/978-1-4020-6759-4\\_9](http://dx.doi.org/10.1007/978-1-4020-6759-4_9)

**Garcia-Gonzalo, J.**, Peltola, H., Zubizarreta-Gerendiain, A., and Kellomäki, S. Analysing the effects of forest structure on carbon stocks and timber production under changing management and climate. In Bravo, F., Lemay, V., von Gadow, K., Jandl, R. (Ed) 2008. *Climate Change and Forest Management*, Springer Pub. ISBN: 978-1-4020-8342-6 (Print) 978-1-4020-8343-3 (Online). Volume 17: 195-218. [http://dx.doi.org/10.1007/978-1-4020-8343-3\\_12](http://dx.doi.org/10.1007/978-1-4020-8343-3_12)

## 3. Papers in conference/workshops in proceedings (no reviewed)

**Garcia-Gonzalo, J.**, Jäger, D., Lexer, M., Peltola, H., Briceño-Elizondo, E., Kellomäki, S. 2006. Optimisation of Forest Management Under Current and Changing Climate: a case study of a Finnish Management Unit. *Proceedings to the International Conference: "Managing Forest Ecosystems: the Challenges of Climate Change"*. Palencia, Spain. April 3rd to 7th -2006.

#### 4. Papers in Faculty publications and reports

Badeck, F-W., Fürstenau, C., Lasch, P., Peltola, H., **Garcia-Gonzalo, J.**, Briceño-Elizondo, E., Kellomäki, S., Lexer, M.J., Jäger, D., Lindner, M., Thiel, D.K., Kaipainen, T., Lehikoinen, S.J., and Feliu, J., 2005. Kellomäki, S. Chapter 7. Adaptive Forest Management at Scale of Management Unit. In: Kellomäki, S. & Leinonen, S. (eds). Management of European Forests under Changing Climatic Conditions. Research Notes 163, University of Joensuu, Forest Faculty, pp. 315-382.

Marcus Lindner, **Jordi Garcia-Gonzalo**, Marja Kolström, Tim Green, Ricardo Reguera, Michael Maroschek, Rupert Seidl, Manfred J. Lexer, Sigrid Netherer, Axel Schopf, Antoine Kremer, Sylvain Delzon, Anna Barbati, Marco Marchetti, Piermaria Corona. 2008. Impacts of Climate Change on European Forests and Options for Adaptation. AGRI-2007-G4-06. Report to the European Commission Directorate-General for Agriculture and Rural Development. EFI publisher. [http://ec.europa.eu/agriculture/analysis/external/euro\\_forests/index\\_en.htm](http://ec.europa.eu/agriculture/analysis/external/euro_forests/index_en.htm)

#### **OTHER ACTIVITIES: PARTICIPATION IN INTERNATIONAL/NATIONAL WORKSHOPS/CONFERENCES**

Conference: Carbon budget of Finnish forests from 1920 to 2000. Finnish Forest Research Institute and EFI, in Helsinki, (Finland), 23.03.2004.

International conference on Modeling Forest Production. Austria University of Natural Resources and Applied Life Sciences (Universität für Bodenkultur Wien). 19-22.04.04 at Vienna, Austria. **Oral presentation.**

IUFRO Div 4 International Conference: "Managing Forest Ecosystems: the Challenges of Climate Change" from April 03-07, 2006 at the University of Valladolid (Palencia), Spain. **Oral presentation.**

Conference: Gestión Sostenible de los Bosques y Cooperación al Desarrollo: Herramientas para el alivio de la pobreza. Centre Tecnològic Forestal de Catalunya, 20-24.11.2006, Solsona (Lleida) – Spain.

IUFRO International Conference: "Forest Growth and timber quality: Crown Models and Simulation Methods for Sustainable Forest Management" in Portland, Oregon, USA from August 7-10, 2007. **Poster presentation.**

EFI 2008 Annual Conference on "Adaptation of Forest Landscape to Environmental Changes", 17-19 September, Orvieto, Italia. **Poster presentation.**

13<sup>th</sup> Symposium on Systems Analysis in Forest Resources, Charleston, South Carolina, USA. From May 26<sup>th</sup> to May 29<sup>th</sup>, 2009. Symposium sponsored by the Society of American Foresters E4 Working Group (Management Sciences and Operations Research). Title of the oral communication: Integrating fire risk in stand management scheduling. An application to Maritime pine stands in Portugal. **Garcia-Gonzalo, J.**, Botequim, B., Marques, S., Borges, J.G., and Oliveira, M. M. **Oral Presentation.**

International workshop: EURO Summer Institute 2009: "OR in Agriculture and Forest Management" from 27<sup>th</sup> July – 7<sup>th</sup> August in Lleida and Solsona (Spain).

#### **STAYS IN INTERNATIONALLY RECOGNIZED CENTRES**

CENTRE: European Forest Institute

PLACE: Joensuu COUNTRY: Finland YEAR: 2002-2003 LENGHT: 9 months

TOPIC: Forest guidelines for forest planning to be used in EFISCEN model

POSITION: Training researcher. Epsilon grant agreed by the Catalan Government and Leonardo grant by the Spanish Government in order to develop a practical training at the European Forest Institute (EFI) in Joensuu (Finland).

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CENTRE: Austria University of Natural Resources and Applied Life Sciences. BOKU  
PLACE: Vienna            COUNTRY: AUSTRIA    YEAR: 2006            LENGHT: 15 days  
TOPIC: Analysing data for an article about multi-objective optimisation of forest planning under climate change.  
POSITION: Guest researcher

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CENTRE: University of Joensuu  
PLACE: Joensuu            COUNTRY: Finland    YEAR: April 2009    LENGHT: 15 days  
TOPIC: Alternative approaches to address risk in stand-level management  
POSITION: Guest researcher with a COST STSM grant

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