

ALLEGATO "B1"

PERSONAL INFORMATION

Lorenzo Sallustio

WORK EXPERIENCE

(from 03/2010 – to 12/2011)

Scholarship

Agricultural Research Council (CRA), Research Unit "Management of forest systems in the Appenines", (via Bellini 8, Isernia (IS), 86170, Italy)

- Theme "Territorial Forest Planning: characterization of forest stands for the biodiversity conservation" within the research project "Permanent Observatory for biodiversity" in the Mainarde mountains district (Molise, Italy). Supervisor: Dott. Fabrizio Ferretti.

Business or sector Research

(from 11/2007 – to 11/2008)

University training

ECOGEOFOR, academic spin-off of the University of Molise (Contrada Fonte Lappone, 86090, Pesche (IS), Italy). Tutor: prof. Vittorio Garfi.

PRIN "Innovative Methods for the identification, characterization and management in old growth forests"

Activity: filed work, data collection, elaboration and analyses in several old growth forests within Italian National Parks.

Business or sector Research

EDUCATION AND TRAINING

(from 01/2014 – to 07/2014)

Short Term Visitng Scholar



Stanford University, Center for Conservation Biology and Natural Capital Project, (371 Serra Mall, Stanford, CA 94305-5020 USA). 6 months visiting scholar; main goals:

- Increasing my knowledge of the InVest model (developed by the Natural Capital Project team; <http://www.naturalcapitalproject.org/>);
- The study of the impact of Land use and land cover change (LULCC) scenarios on ES in selected test areas in Italy;
- The application of cutting-edge statistical methods for the spatial estimation of environmental variables integrating data from different sources (field, remote sensing, ancillary maps); this activity will be finalized to provisioning wall-to-wall maps of input information requested by InVest;
- Evaluating upscaling methods to aggregate collected data from local scale to broader spatial scales (landscape, regional);
- Detecting spatio-temporal changes in ES provisioning considering LULCC and forest management.

(from 01/2012 – 31/12/2014)

PhD course

University of Molise, Department of Bioscience and Territory, Laboratory of Global Ecology (Contrada Fonte Lappone, 86090, Pesche (IS), Italy). PhD course “Argo-forestry science, agro-industrial technology and rural landscapes. Forestry systems”. Cycle XXVII..Supervisor: prof. Marco Marchetti.

- The PhD research is mainly focused on the analyses of dynamics and fluxes of Land Use and Land Cover Change at different scales, and the related effects on ecosystem services, primarily carbon sequestration and biodiversity conservation. Thesis: “Land use and land cover change monitoring and impacts on Italian ecosystems and landscape”
- Participation in several research projects, among which:
 - PRIN “CARBOTREES” (Climate change mitigation strategies in tree crops and forestry in Italy)
 - FIRB “MIMOSE” (Development of innovative models for multiscale monitoring of ecosystem services indicators in Mediterranean forests)
 - “ITALI” (Integration of Territorial And Land Information)
 - “CIS” (Carbon in Italian Soils: organic Carbon in soils, storage capability, sensitivity to degradation and agricultural policy scenarios)
 - Management Plans in N2000 sites (Molise Region, Italy)
 - Forest Management Plans (Capracotta (IS), Molise, Italy)
- Field work
- Students tutoring

(from 03/06/2012 – to 06/06/2012)

49th Summer School on Ecological Culture “The Earth in the Anthropocene”

San Vito di Cadore (BL), Italy. Arranged by the University of Padua.

(from 05/07/2012– to 10/07/2012)

Summer school on Europrojecting

Lecce (LE), Italy

- With focus on Europe 2020 strategies

(from 09/2009 – to 07/2011)

Master’s degree

University of Molise, Faculty of Agronomy, Course Environmental and Forestry Sciences (Campobasso, Molise, Italy).

LS

- Forest planning, silviculture, landscape ecology and management, biodiversity conservation, climate change, zoology, environmental economy etc.
- Thesis on "Fire Ecology and Forest Fire Management": Characterization and definition of fire models in Molise, based on forest types. Keywords: forest types; behave plus; fire models; fire risk. Supervisor: prof. Vittorio Garfi.
- Mark: magna cum laude

(from 09/2005 – to 04/2009)

Bachelor's degree

University of Molise, Faculty of Agronomy, Course Environmental and Forestry Technologies (Campobasso, Molise, Italy).

- Forest ecology, botany, hydrology, agrarian economy, forest inventories etc.
- Thesis on "Ecology and forest planning": Forest stands structure analyses in old growth forests within Italian National Parks. Keywords: old growth forests; stand structure; dendrometry. Within PRIN project "Innovative methods for the identification, characterization and management of old-growth forests in the mediterranean environment". Supervisor: prof. Vittorio Garfi.
- Mark: magna cum laude

(from 09/2000 – to 07/2005)

High School Diploma

Technical Institute for Agriculture (Larino (CB), Molise, Italy).

- Biology, cartography and topography, agronomy, economy, entomology, pathology etc.
- Mark: 100/100

PERSONAL SKILLS

Mother tongue Italian

Other language(s)*

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English**	B1	B1	B1	B1	B1
French	A2	A2	A1	A1	A1

*Common European Framework of Reference for Languages

** EFCELT Certification obtained after a one month 1 month course with EF school in Bristol (UK).

Communication skills

- good communication skills gained through different experiences such as: speaker at Conferences and workshops, representation roles during his school period, environmental guide.

Organisational / managerial skills

- leadership (president of Association of Forestry Students at University of Molise; Institute and College representative)
- organisation (organisation of workshops, cultural, social and environmental events; coordination of work groups)

Job-related skills

- Problem solving (acquired during the activities related to his work experiences)
- Team work (acquired through research projects and scientific collaborations, both within and outside his research group; team responsible during field-work activities).
- Arrangement of survey protocols (acquired through research projects and tutoring activities)

LS

- Computer skills
- Good command of Microsoft Office™ tools (Word, Excel, Access etc.), ESRI ArcGIS tools and several add-ins, Quantum Gis (Open Source Geographic Information System), IDRISI Selva, SPSS software package (used for statistical analyses). Good knowledge of different software used in forestry sciences, among which: SVS (Stand Visualisation System), NBSI (Neighbourhood Based Structural Index), BehavePlus (Wildfire Risk Assessment), Guidos (spatial pattern analysis), InVEST.
- Other skills
- Use of GPS (mainly with Trimble instruments such as GeoXT and Juno), and related software (ArcPad and TerraSync)
 - Use of forestry field work instruments: Vertex, relascope, Pressler's drill etc.
- Driving licence
- B

ADDITIONAL INFORMATION

Publications

PEER REVIEW JOURNALS

Bottalico F., SALLUSTIO L., Vizzarri M., Travaglini D., Antonello L., Barbati A., Chirici G., Corona P., Cullotta S., Laforteza R., Marchetti M., Nocentini S., Lombardi F. (*in prep.*). Mapping the impact of forest management alternatives on services provision: a case-study at regional scale in Central Italy. *Environmental Research*.

SALLUSTIO L., Munafò M., Riitano N., Lasserre B., Fattorini L., Marchetti M. (2015, *submitted*). Integration of land use and land cover inventories for landscape management and planning in Italy. *Landscape and Urban Planning*.

SALLUSTIO L., Quatrini V., Geneletti D., Corona P., Marchetti M. (2015, *submitted*). Assessing land take by urban development and its impact on carbon storage: Findings from two case studies in Italy. *Environmental Impact Assessment Review*.

SALLUSTIO L., Palombo C., Tognetti R., Lasserre B., Marchetti M. (2015, *submitted*). Social and ecological changes in the Italian mountain: recent evolution in land use change. *L'Italia Forestale e Montana*.

Marchetti M., Vizzarri M., Lasserre B., SALLUSTIO L., Tavone A. (2014). Natural capital and bioeconomy: challenges and opportunities for forestry. *Annals of Silvicultural Research*, 38 (2),: 62-73. DOI: <http://dx.doi.org/10.12899/ASR-1013>

Chirici G., SALLUSTIO L., Vizzarri M., Marchetti M., Barbati A., Corona P., Travaglini D., Cullotta S., Laforteza R., Lombardi F. (2014). Advanced Earth observation approach for multiscale forest ecosystem services modeling and mapping (MIMOSE). *Annali di botanica* (4) : 27-34. DOI:10.4462/annbotrm-11810 . <http://ojs.uniroma1.it/index.php/Annalidibotanica/article/view/11810>

Marchetti M., Lasserre B., Pazzagli R., SALLUSTIO L. (2014). Rural areas and urbanization: analysis of a change. *Scienze del territorio* (2): 239-258. ISSN 2284-242X. Doi: http://dx.doi.org/10.13128/Scienze_Territorio-14333

SALLUSTIO L., Vizzarri M., Marchetti M. (2013). Trasformazioni territoriali recenti ed effetti sugli ecosistemi e sul paesaggio italiano. *Territori* (18): 46-53

Vizzarri M., Lombardi F., SALLUSTIO L., Chirici G., Marchetti M. (2013). I servizi degli ecosistemi forestali ed il benessere dell'uomo: quali benefici dalla ricerca? *Gazzetta Ambiente* (6): 9-18.

Marchetti M., Ottaviano M., Pazzagli R., SALLUSTIO L. (2013). Consumo di suolo e analisi dei cambiamenti del paesaggio nei Parchi Nazionali d'Italia. *Territorio*, 66: 121-131. DOI: 10.3280/TR2013-066021

M. Marchetti, L. SALLUSTIO, M. Ottaviano, A. Barbati, P. Corona, R. Tognetti, L. Zavattero & G. Capotorti (2012). Carbon sequestration by forests in the National Parks of Italy, *Plant Biosystems - An International Journal Dealing with all Aspects of Plant Biology: Official Journal of the Società Botanica Italiana*, 146 (4): 1001-1011. DOI: <http://dx.doi.org/10.1080/11263504.2012.738715>

Chiavetta U., SALLUSTIO L., Garfi V., Maesano M., Marchetti M. (2012). Classification of the oldgrowthness of forest inventory plots with dissimilarity metrics in Italian National Parks. *European Journal of Forest Research* 131 (5): 1473-1483. DOI: <http://dx.doi.org/10.1007/s10342-012-0616-7>

BOOK CHAPTERS

Marchetti M., Ottaviano M., SALLUSTIO L. (2013). La contabilità ambientale del servizio di sequestro del carbonio. In Marino D. (2013- a cura di) "Il nostro capitale. Per una contabilità ambientale dei Parchi nazionali italiani", pp. 82-91, Franco Angeli Editore, Milano.

Marchetti M., SALLUSTIO L. (2012). Dalla città compatta all'urbano diffuso: ripercussioni ecologiche dei cambiamenti d'uso del suolo. In Ippolito A.M. (2012- a cura di) "Il progetto di paesaggio come strumento di ricostruzione dei conflitti". Franco Angeli Editore, pp.165- 173. ISBN: 9788820409548.

Oral presentations

SALLUSTIO L., Travaglini D., Bottalico F., Antonello L., Barbati A., Chirici G., Corona P., Cullotta S., Laforzezza R., Marchetti M., Nocentini S., Lombardi F. - Modeling the influence of alternative forest management scenarios on wood production in the mediterranean region. The MiMoSe approach. II International Congress of Silviculture Designing the future of the forestry sector- Florence 26-29 Nov. 2014. <https://congressoselvicultura.files.wordpress.com/2014/11/programma-ii-congresso-internazionale-selvicultura2.pdf>

Marchetti M., Lombardi F., Chirici G., SALLUSTIO L. Barbati A., Travaglin D., Laforzezza R., Cullotta S., La Mela Veca D.S., Secondi L., Pesola L., Maetzke F., Corona P. (2014). Development of innovative models for multiscale monitoring of ecosystem services indicators in Mediterranean forests. XXIV IUFRO World Congress 2014 – Salt Lake City, UT, United States, 5-11 October 2014. Proceedings at The International Forestry Review 16 (5):11. ISSN 2053-7778

Marchetti M., SALLUSTIO L., Vizzarri M., Chirici G., Lombardi F., Pesola L., Laforzezza R., Corona P. (2014) Development of innovative models for multiscale monitoring of ecosystem services indicators in Mediterranean forests. First meeting of the Italian working group MAES Department of Environmental Biology - Sapienza University of Rome. Rome, 27 feb 2014

Marchetti M., Ottaviano M., SALLUSTIO L., Vizzarri M., Maesano M. (2013). Carbon sequestration in the network of italian protected areas. In proceeding of: IX Congresso Nazionale SISEF "Multifunzionalità degli ecosistemi forestali montani: sfide e opportunità per la ricerca e lo sviluppo ", 16-19 Settembre 2013, Bolzano (Italy)

SALLUSTIO L., Pazzagli R., Lasserre B., Ottaviano M., Savio D., Dissegna M., Zorz A., Marchetti M. (2013). Spazio rurale e urbanizzazione: analisi di un cambiamento e buone pratiche di ritorno alla terra. In: "Corsa alla terra anche in Italia? Alla ricerca di cibo, acqua ed energia nell'era della scarsità", Rovigo (Italy), 15- 16 march 2013.

Marchetti M., SALLUSTIO L. (2013). Analisi dei flussi e degli impatti nei cambiamenti d'uso delle terre in Italia dal 1990. In: "Il consumo di suolo: lo stato, le cause e gli impatti", Rome (Italy), 5 February 2013.

Marchetti M., SALLUSTIO L. (2012). Dalla città compatta all'urbano diffuso: ripercussioni ecologiche dei cambiamenti d'uso del suolo. In: V Colloquio Internazionale sul Paesaggio, Rome (Italy), 20 april 2012.

Garfi V, SALLUSTIO L., Chirici G, Chiavetta U, Ottaviano M, Marchetti M (2011). Caratterizzazione e definizione di modelli di combustibile su base tipologica nella Regione Molise. In: 8th SISEF National Conference, Rende (CS- Italy), 04 – 07 Oct 2011, Contribute no. #c8.4.7

Marchetti M, Chiavetta U, Garfi V, Maesano M, SALLUSTIO L., Blasi C (2009). Metodi di identificazione e condizioni strutturali di alcuni boschi vetusti nei Parchi Nazionali d'Italia. In: 7th SISEF National Conference , Isernia – Pesche (IS- Italy), 29 Sept – 03 Oct 2009, Contribute no. #c7.7.1.



Poster

Travaglini D., Bottalico F., Antonello L., Barbatì A., Chirici G., Corona P., Cullotta S., Laforzezza R., Marchetti M., Nocentini S., SALLUSTIO L., Lombardi F. (2014) Modeling the influence of alternative forest management scenarios on wood production in the Mediterranean region: the MIMOSE approach. Global Change Research Symposium, Ostuni 16-18 sep 09 2014

SALLUSTIO L., Chirici G., Vizzarri M., Lombardi F., Laforzezza R., Pesola L., Marchetti M. (2014). Mapping Mediterranean Ecosystem Services and Trade-offs. 26 mar 2014; NatCap Annual Meeting & Training, Stanford University, Palo Alto, CA.

Dezio C. SALLUSTIO L., Marino D., Marchetti M. (2014). Il progetto di paesaggio nella pianificazione territoriale: analisi, rischi, impatti e prospettive. 16 apr 2014, XII Colloquio Internazionale sul Paesaggio: comunicare il paesaggio; parole chiave per un dialogo transdisciplinare. Roma, Università La Sapienza

SALLUSTIO L., Marchetti M., Ottaviano M., Maesano M., Tognetti R. (2013)- Cambiamenti d'uso del suolo nella montagna italiana. In proceeding of: IX Congresso Nazionale SISEF "Multifunzionalità degli ecosistemi forestali montani: sfide e opportunità per la ricerca e lo sviluppo ", 16-19 Settembre 2013, Bolzano (Italy)

Chirici G., Garfi V., Chiavetta U., Tonti D., SALLUSTIO L., Marchetti M (2009). Studio preliminare per la derivazione di una cartografia della biomassa epigea delle formazioni forestali della Regione Molise. In: 7th SISEF National Conference, Isernia – Pesche (IS- Italy), 29 Sept – 03 Oct 2009, Contribute no. #c7.7.1

Acknowledgment Quotes

ISPRA, 2014. Il consumo di suolo in Italia (Edizione 2014). Rapporti 195/2014.

Supervisor

Di Cristofaro M. (A.A. 2013-2014). Master degree thesis "Contributo all'immagazzinamento del Carbonio dei boschi di neoformazione nella Riserva MaB Collemeluccio-Montedimezzo Alto Molise". Department of Agriculture, Environment and Food, course on Forestry and Environmental Science, University of Molise

Simpatico A. (A.A. 2013-2014). Master degree thesis "Valutazione dell'influenza dei cambiamenti d'uso del suolo sulla biodiversità in regione Molise". Department of Agriculture, Environment and Food, course on Forestry and Environmental Science, University of Molise

Lectures

Action research "Analisi e Governance dei Servizi Ecosistemici" within the FSE project of the Veneto region "Gestione Integrata dei Pagamenti per Servizi Ambientali, delle Compensazioni Ambientali e della Politica Agricola Comunitaria nella Regione Veneto" Cod. progetto 2105/101/8/1148/2013. 40 hours during the months of january and february 2015.

Pesche, 20/02/2015

Signature

