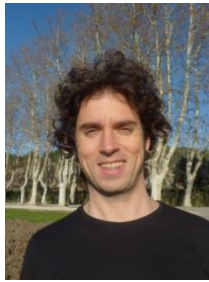








PERSONAL INFORMATION

Aleixandre VERGER



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 <http://www.creaf.cat/en/personal/aleixandre-verger-ten>
https://www.researchgate.net/profile/A_Verger
 **Skype:** aleixandre.verger
Sex Man | **Date of birth** 14/01/1978 | **Nationality** Spain

WORK EXPERIENCE

- 2013-now **Researcher**
 Centre for Ecological Research and Forestry Applications, CREAM, Barcelona (<http://www.creaf.cat>)

 - Remote sensing, biophysical variables, vegetation-climate dynamics, phenology, global change
 - Coordination of GIO Copernicus global land at CREAM
 - PI of LONGLOVE (CREAF 32-594) and AgriUAV (CREAF 32-572) projects
- 2010-2013 **Researcher**
Institut National de la Recherche Agronomique, INRA, UMR1114 EMMAH, Avignon, France

 - Development and validation of algorithms for the estimation of biophysical variables from satellite (FP7 Geoland2) to close range remote sensing
- 2008-2010 **Researcher**
 University of Valencia, Dep. Earth Physics, Spain

 - Development and validation of LSA SAF/EUMETSAT biophysical variables
- 2007-2008 **Researcher**
 University of Valencia, Dep. Earth Physics, Spain

 - Remote sensing of land degradation and desertification (FP6 DeSurvey)
- 2002-2008 **PhD student**
 University of Valencia, Dep. Earth Physics, Spain

 - Remote sensing, bidirectional reflectance models, operational algorithms, biophysical variables, validation

EDUCATION AND TRAINING

- 2008 **Doctorate: PhD in Physics**
 University of Valencia (Spain)

 - Remote sensing of vegetation biophysical variables
- 2004 **Master in Earth Physics**
 University of Valencia (Spain)

 - Bidirectional reflectance models
- 2002 **University degree: Degree in Physics**
 University of Valencia (Spain)

PERSONAL SKILLS

Mother tongue(s) Catalan/Spanish

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills ▪ Good communication skills gained through my experience in international projects and oral presentations in international conferences. Improved by 4 years in France.

Organisational / managerial skills ▪ PI of 3 research projects at CREAM

Teaching skills ▪ ANECA accreditation of hired doctor lecturer.
 ▪ 2012-2013; 11-12: M2 Hydrogeologie, sol et environnement, Université d'Avignon, France. 6.5 h lectures; 4h supervised practices.
 ▪ 2014-2015; 14-13; 12-13; 11-12; 10-11; 09-10; 08-09: Master of Remote Sensing, Universitat de València, Spain. 96h lectures; 59 h lab and supervised practices
 ▪ 2006-2007; 05-06: Assistant professor in Farmacy Degree, Universitat de València, Spain. 90h lab.
 ▪ 2005-2006: Assistant professor in Earth Science Degree, Universitat de València, Spain. 30h lab.

Computer skills ▪ Good expertise with main applications software in the MS Windows operating system, Linux, Mac and Unix.
 ▪ Programming skills: MatLab, IDL, R, Fortran 77 and MS Visual Basic
 ▪ Good expertise in image processing (RSI ENVI) and GIS (QGIS, GRASS, ArcGIS, gvSIG).

Driving licence ▪ A, B

Training short courses ▪ Spatial analysis with R, University of Barcelona, Spain, 2015
 ▪ 2nd TERRABITES Training School on Land Biosphere Modeling, Avignon, France, 2014.
 ▪ Course in Business English, Avignon (France), 2011, 2012, 2013, 2014.
 ▪ Scientific writing in English, Avignon (France), 2010.
 ▪ Scientific oral presentations in English, Avignon (France), 2010.
 ▪ Summer Short Course for Earth System Modeling and Supercomputing, NASA Ames Research Center (online), 2012.
 ▪ Formation école-chercheurs 'Analyse de sensibilité et exploration de modèle', MEXICO, Ecully, France, 2012.
 ▪ QGIS & GRASS, SFP INRA, Avignon, France, 2011.
 ▪ Data Assimilation Course, Grenoble, France, 2011.
 ▪ Statistical analysis with SPSS, SFP Universitat de València, 2010.
 ▪ ESA Advanced Training Course on Land Remote Sensing, Prague, Czech Republic, 2009.
 ▪ Use of MATLAB for teaching and reasearch, SFP Universitat de València, 2009.
 ▪ gvSIG, Universitat de València, 2009.
 ▪ Postdegree certificate 'Systems of observation and surveillance in meteorology and climatology', Universitat de València/Fundació Universitat-Empresa ADEIT, 2005.
 ▪ Remote sensing with ENVI, Albacete, 2003.
 ▪ Programming with ENVI-IDL, Albacete, 2003.
 ▪ LINUX. Installation, administration and security, SFP Universitat de València, 2003.

ADDITIONAL INFORMATION

Publications

h-index: 10; 285 citations since 2010.

International Peer Review Journal Publications

- [1] Brandt, M. Hiernaux, P., Tagesson, T., **Verger, A.**, Rasmussen, K., Diouf, A. A., Mbow, C., Mougín, E., Fensholt, R. (2015). Woody plant cover estimation in drylands from Earth Observation based seasonal metrics. *Remote Sensing of Environment* 172, 28-38.
- [2] Brandt, M., Mbow, C., Diouf, A.A., **Verger, A.**, Samimi, C., & Fensholt, R. (2015a). Ground- and satellite-based evidence of the biophysical mechanisms behind the greening Sahel. *Global Change Biology*, 21, 1610-1620
- [3] Brandt, M., **Verger, A.**, Diouf, A., Baret, F., & Samimi, C. (2014b). Local Vegetation Trends in the Sahel of Mali and Senegal Using Long Time Series FAPAR Satellite Products and Field Measurement (1982–2010). *Remote Sensing*, 6, 2408-2434
- [4] Cernicharo, J., **Verger, A.**, & Camacho, F. (2013). Empirical and Physical Estimation of Canopy Water Content from CHRIS/PROBA Data. *Remote Sensing*, 5, 5265-5284
- [5] Diouf, A., Brandt, M., **Verger, A.**, Jarroudi, M., Djaby, B., Fensholt, R., Ndione, J., & Tychon, B. (2015). Fodder Biomass Monitoring in Sahelian Rangelands Using Phenological Metrics from FAPAR Time Series. *Remote Sensing*, 7, 9122-9148
- [6] Garbulsky, M.F., Filella, I., **Verger, A.**, & Peñuelas, J. (2014). Photosynthetic light use efficiency from satellite sensors: From global to Mediterranean vegetation. *Environmental and Experimental Botany* 103, 3-11
- [7] Kandasamy, S., Baret, F., **Verger, A.**, Neveux, P., Weiss, M., 2013. A comparison of methods for smoothing and gap filling time series of remote sensing observations. Application to MODIS LAI products. *Biogeosciences* 9, 17053-17097.
- [8] Kandasamy, S., Neveux, P., **Verger, A.**, Buis, S., Weiss, M., & Baret, F. (2012). Improving the consistency and continuity of MODIS 8 day leaf area index products. *International Journal of Electronics and Telecommunications*, 58, 141-146
- [9] Martínez, B., Camacho, F., **Verger, A.**, García-Haro, F.J., Gilabert, M.A., 2013. Intercomparison and quality assessment of MERIS, MODIS and SEVIRI FAPAR products over the Iberian Peninsula. *International Journal of Applied Earth Observation and Geoinformation* 21, 463-476.
- [10] **Verger, A.**, Baret, F., Weiss, M., Filella, I., & Peñuelas, J. (2015b). GEOCLIM: A global climatology of LAI, FAPAR, and FCOVER from VEGETATION observations for 1999–2010. *Remote Sensing of Environment*, 166, 126-137
- [11] **Verger, A.**, Baret, F., & Weiss, M. (2014a). Near real time vegetation monitoring at global scale. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, DOI: 10.1109/STARS.2014.2328632, 7, 3473-3481
- [12] **Verger, A.**, Vigneau, N., Corentin, C., Gilliot, J.M., Comar, A., & Baret, F. (2014b). Green area index from an unmanned aerial system over wheat and rapeseed crops. *Remote Sensing of Environment*, 152, 654–664
- [13] **Verger, A.**, Baret, F., Weiss, M., Kandasamy, S., Vermote, E., 2012. The CACAO method for smoothing, gap filling and characterizing seasonal anomalies in satellite time series. *IEEE transactions on Geoscience and Remote Sensing*. DOI: 10.1109/TGRS.2012.2228653.
- [14] **Verger, A.**, Baret, F., Camacho de Coca, F., 2011. Optimal modalities for radiative transfer-neural network estimation of canopy biophysical characteristics: evaluation over an agricultural area with CHRIS/PROBA observations. *Remote Sensing of Environment* 115, 415–426.
- [15] **Verger, A.**, Baret, F., Weiss, M., 2011. A multisensor fusion approach to improve LAI time series. *Remote Sensing of Environment* 115, 2460-2470.
- [16] **Verger, A.**, Camacho, F., García-Haro, F.J., Meliá, J., 2009. Prototyping of Land-SAF leaf area index algorithm with VEGETATION and MODIS data over Europe. *Remote Sensing of Environment* 113, 2285–2297.
- [17] **Verger, A.**, Martínez, B., Camacho-de Coca, F., García-Haro, F.J., 2009. Accuracy assessment of fraction of vegetation cover and leaf area index estimates from pragmatic methods in a cropland area. *International Journal of Remote Sensing* 30, 2685 - 2704.
- [18] **Verger, A.**, Camacho, F., García-Haro, F.J., Meliá, J., 2009. Evaluation of an operational leaf area index retrieval approach using VEGETATION and MODIS data. *EARSel eProceedings EARSel European Association of Remote Sensing*, 180-186.
- [19] **Verger, A.**, Baret, F., Weiss, M., 2008. Performances of neural networks for deriving LAI estimates from existing CYCLOPES and MODIS products. *Remote Sensing of Environment* 112, 2789-2803.

National Peer Review Journal Publications

- [1] **Verger, A.**, Camacho, F., Meliá, J. (2005). Revisión de los modelos paramétricos de BRDF. *Revista de Teledetección* 23, 65 - 80.
- [2] **Verger, A.**, Camacho, F., Meliá, J. (2004). Influencia de la geometría de adquisición en el NDVI. *Revista de Teledetección* 21, 95 - 99.
- [3] **Verger, A.**, Gilabert, M.A., Camacho, F., Meliá, J. (2002). Influencia del ángulo cenital de iluminación en los índices de vegetación. *Revista de Teledetección* 18, 75 - 89.

Book chapters

- [1] Ganguly, S., Nemani, R.R., Baret, F., Bi, J., Weiss, M., Zhang, G., Milesi, C., Hashimoto, H., Samanta, A., **Verger, A.**, Singh, K., & Myneni, R.B. (2014). Green leaf area and fraction of photosynthetically active radiation absorbed by vegetation. In J. Hanes (Ed.), *Biophysical Applications of Satellite Remote Sensing* (pp. 53-70). United States: Springer Science+Business Media

- Presentations** More than 85 presentations in scientific conferences
- [1] Lacaze, R., Smets, B., Calvet, J.C., Camacho, F., Tansey, K., Baret, F., Ramon, D., Montersleet, B., Roujean, J.L., Wandrebek, L., Swinnen, E., Bertels, L., **Verger, A.**, Freitas, S., Paulik, C., & Jann, A. (2015). Sentinel-3 for the Copernicus Global Land Service: Monitoring the Continental Ecosystems at Global Scale In, Sentinel-3 for Science workshop, 2nd-5th June, 2015 Venice (Italy)
 - [2] **Verger, A.**, Baret, F., Weiss, M., Smets, B., Lacaze, R., & Camacho, F. (2014b). Near real time estimation of biophysical variables within Copernicus global land service. In, Global vegetation monitoring and modeling (available at <https://colloque.inra.fr/gv2m/Poster-Sessions/Poster-S7>). Avignon (France)
 - [3] **Verger, A.**, Baret, F., Filella, I. Peñuelas, J. (2014). Anomalies and trends in vegetation responses to climate change from global satellite observations. *Proceedings of the RAQRS* (Publ. Univ. Valencia: Valencia), Ed. J. Sobrino, pp. 326-331.
- Projects** Participation in 24 research projects including European, national and regional initiatives with public and private funding.
- Coordinator of GIO Copernicus global land activities at CREAM from 2013 to 2015
 - PI of 'Estimation of Agricultural variables from UAV data' (AgriUAV, CREAM 32-572), Airinov company (<http://www.cream.cat/en/reerca/ecologia-funcional-i-canvi-global/reserves-and-flows-carbon-and-nutrients/estimation-agricultural-variables-uav-data>)
 - PI of 'Long-term Global Vegetation Monitoring' (LONGLOVE, CREAM 32-594), Pôle THEIA, CNES (<http://www.cream.cat/en/reerca/ecologia-funcional-i-canvi-global/ecosystem-atmosphere-interactions/long-term-global-vegetation-monitoring>)
 - Project manager at CREAM of Copernicus Global Land (CREAM 32-566), VITO, EU Copernicus programme (<http://land.copernicus.eu/global>)
- Conferences** Member of scientific committee of international conferences:
- Global Vegetation Monitoring and Modeling (GV2M). Avignon (France), 3-7th Feb. 2014.
- Organization of international conferences:
- World Climate Research Program WCRP-DIVERSITAS, 'Vegetation and climate change prediction' and 'vegetación'. Location: Valencia (Espagne). Dates: 27-28 Novembre 2008.
- Honours and awards**
- Grants: 1/106 candidates for Juan de la Cierva postdoctoral fellowship from the Spanish Ministry of Science and Innovation; Vall+D postdoctoral grant; PhD grant; collaboration grant from Spanish Ministry of Research and Development; TERRABITES Cost Action STSM Grant
 - Best presentation award in the national conference of remote sensing, Caceres, 2003
- Membership**
- Member of the Spanish association of remote sensing
- Science management**
- Co-supervisor of PhD thesis: S. Kandasamy. *Leaf Area Index (LAI) monitoring at global scale: improved definition, continuity and consistency of LAI estimates from kilometeric satellite observations*. 2013, Université d'Avignon et Pays des Vaucluse.
 - Co-supervisor of PhD thesis: A. Morales. An integrated system for precision agriculture in bananas, Universitat Autònoma Barcelona (ongoing)
 - Supervisor of 4 master students
 - Steering committee member of GEOV1/VGT algorithm, FP7 geoland2 project. INRA-Avignon. Nov., 2009.
 - PhD steering committee of Xiole Fang. INRA-Avignon. Nov., 2009
 - PhD steering committee of Sivasathivel Kandasamy. INRA-Avignon. Nov., 2010, 2011, 2012.
 - Reviewer for international journals including *Global Change Biology* (3 revisions), *Global Ecology and Biogeography* (1), *Remote Sensing of Environment* (9), *IEEE Transactions on Geosciences and Remote Sensing* (1), *Remote Sensing* (2), *International Journal of Applied Earth Observation and Geoinformation* (1), *Computers and Geosciences* (1) and *Ingeniería y Ciencia* (1).