

Dichiarazione ai fini del D.lgs. 33/2013 art. 15

Titolare di incarico specifico di ricerca ex art. 19 lettera F del D.lgs 163/2006

Io sottoscritto in proprio ALBERT COMELLAS PRAT

Dichiaro che:

1. Sono stato incaricato da Fondazione CIMA in data 7/5/2015
2. L'incarico sopra ricordato prevede una durata dal 7/5/2015 al 31/7/2015.
3. Il mio curriculum è sinteticamente riportato in calce al documento
4. Il compenso per l'incarico anno 2015 è previsto in euro 4980 più oneri di legge se dovuti
5. Non ricopro incarichi o cariche in altri Enti di diritto privato regolati o finanziati dalla Pubblica Amministrazione. ~~Svolgo~~ Non svolgo attività professionale. I compensi di Fondazione CIMA non prevedono componenti variabili
6. Non ho riportato condanne penali, né -per quanto a mia conoscenza - ho carichi giudiziari pendenti
7. Autorizzo il trattamento dei miei dati personali ai sensi del d.lgs. 196 del 30.06.2003

Data, 28/7/2015

Firma

Albert Comellas Prat

Albert Comellas Prat

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EDUCATION

- I obtained my PhD degree by the University of Genoa (Genoa, Italy) on the 17th April 2014 with the title *Exploration of tropical indices and analysis of extreme rainfall events in the Mediterranean, and a characterization of deep convection in tropical cyclogenesis forecasting*, which involved a research stage at NASA/Jet Propulsion Laboratory in Pasadena (California, USA).
- I completed my European Master in Meteorology in July 2010 at the University of Barcelona. The results of my master thesis (which involved a sponsored stage at CIMA Research Foundation in Savona, Italy) *Predictive ability of severe rainfall events over Catalonia for the year 2008*, were published in a peer-reviewed journal.
- I graduated in July 2006 in Physics and Meteorology (MPhys) at the University of Reading (Honours Degree). Studying this degree gave me ability for problem-solving, team-working, making public presentations, getting projects done under pressure, etc. All in all, I achieved an in-depth knowledge of Atmospheric Science and Physics.
- Previous qualifications: *Batxillerat* (Catalan equivalent of British A-levels), studied in CE Ramar II (Sabadell). Mark obtained: 70 % (main subjects: Physics, Mathematics, Mechanics and Chemistry). September 2000 – June 2002
- Title of *Educació Secundària Obligatòria* (ESO) (Compulsory secondary education), studied in CE Ramar II (Sabadell). September 1996 – June 2000

English language titles:

- *First Certificate in English*, by the British Council in Barcelona. 2002
- *Test of English as a Foreign Language* (TOEFL), in the North American studies Institute in Barcelona. 2002

PROFESSIONAL EXPERIENCE

- Research assistant at CIMA Research Foundation. May 2015 to July 2015.
- Post-doc in regional downscaling of non-hydrostatic numerical simulations with the WRF model under different global warming forcing scenarios, at the Institute of Atmospheric Sciences and Climate – National Research Council of Italy (ISAC-CNR) and in collaboration with CIMA Research Foundation. May 2014 to May 2015.
- I completed my PhD degree at CIMA Research Foundation and for the University of Genoa, under supervision of Antonio Parodi, PhD. And since January 2012, also in collaboration with Simone Tanelli, PhD, from the Radar Science and Engineering Group at NASA/Jet Propulsion Laboratory (USA). January 2011 to December 2013.
- I worked on the publication of my Master thesis results at CIMA Research Foundation under supervision of Antonio Parodi, PhD. October to December 2010.
- I was granted a 3-month scholarship to carry out my research project at CIMA Research Foundation, in the context of the Master in Meteorology from the University of Barcelona. February to April 2010.

SCIENTIFIC PUBLICATIONS

- Comellas, A., Parodi, A., Tanelli, S., Durden, S. L., Zawislak, J.: *Role of large scale forcing, parameterizations and initial conditions on the modeling of Hurricane Karl genesis*. (Submitted to journal).
- Fiori, E., Comellas, A., Molini, L., Rebora, N., Siccardi, F., Gochis, D. J., Tanelli, S., Parodi, A., 2014: *Analysis and hindcast simulations of an extreme rainfall event in the Mediterranean area: The Genoa 2011 case*, Atmos. Res., 138, 13–29, doi:10.1016/j.atmosres.2013.10.007.
- Rebora, N., Molini, L., Casella, E., Comellas, A., Fiori, E., Pignone, F., Siccardi, F., Silvestro, F., Tanelli, S., and Parodi A., 2013: *Extreme rainfall in the Mediterranean: what can we learn from observations?*, J. Hydrometeorol., 14, 906–922, doi:10.1175/JHM-D-12-083.1.
- Comellas, A., Parodi, A., Tanelli, S., Durden, S. L., Zawislak, J.: *Role of large scale forcing and parameterizations on the modeling of Hurricane Karl genesis*, 30th Conference on Hurricanes and Tropical Meteorology, April 15th-20th 2012, Ponte Vedra Beach (FL, USA), 2012. (Oral presentation)
- Comellas, A., Parodi, A., Fuchs, Z., Molini, L., 2013: *Saturation fraction and gross moist stability in severely precipitating systems in the midlatitude Mediterranean environment*, Atmos. Res., 123, 360–367, doi:10.1016/j.atmosres.2012.07.010.

- Comellas, A., Fuchs, Z., Molini, L., Parodi, A.: *Saturation fraction and gross moist stability in an evolving Mediterranean environment*, 13th Plinius Conference on Mediterranean Storms, September 7th-9th, Savona (Italy), 2011. (Oral presentation) Thanks to this presentation I was awarded the Med-Storms Prize for young researchers of the Plinius Conference.
- Comellas, A., Molini, L., Parodi, A., Sairouni, A., Llasat, M. C., and Siccardi, F., 2011: *Predictive ability of severe rainfall events over Catalonia for the year 2008*, Nat. Hazards Earth Syst. Sci., 11, 1813–1827, doi:10.5194/nhess-11-1813-2011.
- Comellas, A., Llasat, M. C., Molini, L., Parodi, A., Siccardi, F.: *Predictive ability of severe rainfall events over Catalonia for year 2008*, 12th Plinius Conference on Mediterranean Storms, September 1st-4th, Corfu (Greece), 2010. (Oral presentation)
- Comellas, A., Llasat, M. C., Molini, L., Parodi, A., Siccardi, F.: *Severe rainfall prediction systems for civil protection purposes*, 12th Plinius Conference on Mediterranean Storms, September 1st-4th, Corfu (Greece), 2010. (Poster presentation)

COURSES AND CONFERENCES

- Participated in the 3rd *Split Workshop in Atmospheric Physics and Oceanography* held at Brac (Croatia) during 22nd-28th May 2011 (<http://fizika.pmfst.hr/TSWAP/>).
- Attended the workshop *WRF for Hurricanes Tutorial* held at NCAR, Colorado (USA), during 26th-29th April 2011 (http://www.dtcenter.org/HurrWRF/hurricane_tutorial_2011.php).
- Attended the seminar *Atmospheric Electricity*, held during May 28th-29th 2009, at the Faculty of Physics of the University of Barcelona.
- Attended the X International Symposium “One Earth” about *Climate Change and Civil Society*, which took place during October 22nd-24th 2008 at the Faculty of Geography of the University of Barcelona.
- Attended the conference *Polar Regions and Global Warming*, on April 20th 2007, at the CosmoCaixa in Barcelona.

SKILLS

- Languages:
Professional proficiency in English. Catalan and Spanish languages are my mother tongues. Furthermore, I have a high command of Italian. Anecdotally, I know some very basic Chinese.

- Computing:

I am used to working both in Windows and UNIX (Linux/Mac) environments. I have a very good knowledge of Microsoft Office programs and internet resources. I have a very good domain of MATLAB and NCAR's NCL, and some of IDL, FORTRAN and C programming languages, along with NCO tools. I also have experience working with NCAR's VAPOR 3D visualization and analysis platform as well as the grid analysis and display system (GrADS) tool.