

Alberto Troccoli

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Italian/British, married, 3 children



SUMMARY PROFILE

Dr Troccoli has contributed to various climate-related scientific fields including data assimilation in oceanography, seasonal predictions and the interaction between weather & climate and energy. He has also been pro-actively contributing to the promotion of weather & climate through the organisation of several capacity building activities and by co-founding a network of consultants (Climate-Insight) working in the Climate Risk Management sector. Alberto's key skills are: strategic planning, project management, scientific analysis, capacity building. Alberto holds a PhD from the University of Edinburgh (UK).

EDUCATION

- 2000 **The University of Edinburgh, UK**
PhD in Physical Oceanography
- 1996 **University of Padova, Italy**
Laurea in Physics
- 1994-1995 **The University of Edinburgh, UK**
Fourth year Physics on an exchange program (Erasmus)

PROFESSIONAL EXPERIENCE

- 2009-now **Commonwealth Scientific and Industrial Research Organisation, Australia**
Senior Research Scientist – Head, Weather & Energy Research Unit
Leader, Regional Weather, Climate & Energy Stream
- 2008-2009 **University of Reading, UK**
Senior Research Fellow
- 2007-2008 **Climate-Development.org and Climate-Insight.com**
Founder and Coordinator (Managing Director) of a network of consultants
- 2002-2008 **European Centre for Medium-Range Weather Forecasts (ECMWF), UK**
Scientist (Consultant) in the Seasonal Forecasting Section
- 2000-2002 **NASA/UMBC, Goddard Space Flight Center, USA**
Assistant Research Scientist in the Seasonal-to-Interannual Prediction Project
- 2000 **University of Padova, Italy**
Research Assistant
- 1999-2000 **European Centre for Medium-Range Weather Forecasts, UK**
Consultancy for Scientist for Seasonal Forecasting Programme
- 1989-1990 **Italian Air Force, Italy (compulsory Military Service)**
Officer (S.Lieutenant): Deputy head of the Telecommunication section
- 1983-1992 **Veneto, Italy**
Minor work activities: lifeguard swimming pools (part-time 1991-2); direct sales for bedding products (part-time 1-6/1991); assistant instructor and sales for personal memory courses (part-time 1990); waiter in a pizzeria (Summer 1988); pony-express (Summer 1987); assistant in a motor boat (Summers 1984-7); assistant mechanic (part-time, 1983-8).

CAREER HIGHLIGHTS (CHRONOLOGICAL ORDER)

- 2011 **The two papers “Storm surge frequency reduction in Venice under climate change” and “Long-term wind speed trends over Australia” received extensive media attention**
Several interviews by television (ABC breakfast), radio (ABC national and regional, SBS), press agency (Reuters), newspapers (The Australian, Adelaide Now) and magazines (Nature Climate Change, The Australasian Science Magazine, Recharge). In addition, these two news items appeared on over 300 web sites.
- 2011 **Convener of 1st International Conference Energy & Meteorology**
Initiated concept and supervised organisation of this very successful Conference, held in the Gold Coast, Australia, 8–11 November 2011 (<http://www.icem2011.org>).
- 2010 **Contributor in the World Bank White Paper “Climate Impacts on Energy Systems”**
Substantially contributed to the World Bank publication “Climate Impacts on Energy Systems: Key issues for energy sector adaptation”, which identifies key issues for energy sector adaptation.
- 2009-10 **Member of the Expert Panel in a World Bank Program**
Invited member of the expert panel on Energy security, Energy access and Climate change of the Energy Sector Management Assistance Program. Attended Expert Panel meeting in October 2009. Invited to present at the ESMAP Knowledge Exchange Forum attended by Donors in March 2010.
- 2009 **Invitation to write a review paper**
Invited by an international scientific journal to write a review of “Seasonal Climate forecasting” (see publications list).
- 2008-10 **Editor of two books**
Chief editor and an author of the books “*Seasonal Climate: Forecasting and Managing Risk*” (2008) (about 170 copies sold as of end of 2009) and “*Management of Weather and Climate Risk in the Energy Industry*” (2010).
- 2008 **Initiator and Director of a NATO Advanced Research Workshop**
Initiated, planned and directed this Workshop with ca 30 participants. Tasks included: proposal including detailed budget, coordination of scientific programme, budget management, additional fund raising, fostering relationships with external stakeholders, communication with typography and media.
- 2008 **Invited lecturer in an international Summer School**
Delivered four lectures at the “Climate forcings and global patterns” school at the Istituto Veneto di Scienze, Lettere ed Arti, Venice, Italy.
- 2007 **Founder and Coordinator of Climate-Insight (formerly Climate-Development)**
Co-founded and coordinated a network of consultants, with expertise in climate science, development and policy, working towards an improved integration of Weather/Climate Information into decision-making processes and policy formulations. Tasks included: marketing, contract generation and consultancy work on climate adaptation.
- 2005 **Initiator and Director of a NATO Advanced Study Institute (summer school)**
Initiated, planned and directed this summer school in a remote and novel venue with ca 80 participants (incl. 15 lecturers). Tasks included: proposal including detailed budget, coordination of scientific programme, budget management, negotiations with venue management, attracted several additional sponsors, communication with the media, set-up and maintained ASI web site, coordinated participants selection, lectures preparation and leisure programme.
- 2000 **“Outstanding student paper” award of the American Geophysical Union**
For presenting my PhD work and also research executed by a more senior colleague.
- 1999 **Contracted by the European Centre for Medium-Range Weather Forecasts, UK**
I implemented a scheme I had developed during my PhD into their forecast system.
- 1997 **PhD Scholarship**
Offered a scholarship to cover fees and maintenance for my PhD studies at the University of Edinburgh (UK). [Also had a similar offer from Imperial College, London, UK]

SPECIFIC SCIENTIFIC ACTIVITIES

Professional Consultancies

World Bank white paper identifying key issues for energy sector adaptation (2010)

- Contract negotiation
- Key contributor in several chapters of the white paper

Study for a private firm “Precipitation Forecasts and Climate Scenarios” (2009)

- Prepared competitive proposal and negotiated contract
- Reviewed final document

ClimDev Africa Programme preparation (2008)

- Reviewed the proposal for the Framework Programme commissioned by African Union, African Development Bank and UN Economic Commission for Africa
- Contributed to the preparation of a synthetic version of the document

Study for an Early Warning System for Tunisia (2008)

- Reviewed the report “Etude sur un Système d’alerte précoce pour la gestion des risques liés aux extrêmes climatiques et à l’évolution du climat en Tunisie” (in French) commissioned by GTZ (German Department for Technical Cooperation)
- Contributed to the elaboration and writing of key aspects of the report

Project proposals/management

Partner in the EU COST Action Weather Intelligence for Renewable Energy (2010-now)

Managing CSIRO-component of the EU FP7 SAFEWIND project (2009-now)

Prepared project and managing Weather Renewable Energy Management programme (2009-now)

Managed CSIRO component of project Australian Wind Energy Forecasting System follow-up (2009-10)

Prepared proposal contribution to the EU-FP6 MERSEA project and managed it (2004-7)

Contributed to the preparation of an ASI (Italian Space Agency) project (2000)

Student Supervision

Supervision of two summer student at CSIRO (2010-11)

Supervision of a summer student at CSIRO (2009-10)

Co-Supervision of a Masters student at Reading University (2009)

Mentored a student on summer internship at NASA (2001)

Reviews

Reviewer of several USA grant proposals and of articles in: Atmospheric Science Letters, Boreal Environment Research, Climate Dynamics, Climate of the Past Discussions, EOS, International Journal of Climatology, Journal of Climate, Journal of Geophysical Research (both Oceans and Atmosphere), Journal of Marine Systems, Ocean Modelling, Philosophical Transactions of the Royal Society, Quarterly Journal of the Royal Meteorological Society, Theoretical and Applied Climatology and conference papers of the Australian Solar Energy Society

PUBLICATIONS

Book Editor

Troccoli A, ed (2010) “Management of Weather and Climate Risk in the Energy Industry”, NATO Science Series, Springer Academic Publisher, 344 pp.

Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds (2008) “Seasonal Climate: Forecasting and Managing Risk”, NATO Science Series, Springer Academic Publishers, 467 pp. **(ca 170 copies sold as of 2010)**

Book Chapters

Lambert JH, Troccoli A, Karl H, Sterin A, White KD and Yumagulova L (2011) “Adaptation of Inland Systems to Climate Change: Integrating Physical, Social, and Engineering Disciplines”, in: “Climate Change Adaptation”, Linkov I, ed, Springer Academic Publishers, to appear.

Troccoli A (2010) “Weather and Climate Predictions for the Energy Sector”, in: “Management of Weather and Climate Risk in the Energy Industry”, Troccoli A, ed, NATO Science Series, Springer Academic Publishers, 25-37.

Harrison M and Troccoli A (2010) “Data Headaches”, in: “Management of Weather and Climate Risk in the Energy Industry”, Troccoli A, ed, NATO Science Series, Springer Academic Publishers, 137-147.

Harrison M, Troccoli A, Anderson DLT and Mason SJ (2008) “Introduction”, in: “Seasonal Climate: Forecasting and Managing Risk”, Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds, NATO Science Series, Springer Academic Publishers, 3-12.

- Harrison M, Troccoli A, Williams JB and Coughlan M (2008) "Seasonal Forecasts in Decision Making", in: "Seasonal Climate: Forecasting and Managing Risk", Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds, NATO Science Series, Springer Academic Publishers, 13-42.
- Tribbia J and Troccoli A (2008) "Getting the coupled model ready at the starting blocks", in: "Seasonal Climate: Forecasting and Managing Risk", Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds, NATO Science Series, Springer Academic Publishers, 91-126.
- Harrison M, Troccoli A, Anderson DLT, Mason SJ, Coughlan M and Williams JB (2008) "A way forward for seasonal climate services", in: "Seasonal Climate: Forecasting and Managing Risk", Troccoli A, Harrison M, Anderson DLT and Mason SJ, eds, NATO Science Series, Springer Academic Publishers, 399-410.

Peer Reviewed Articles

- Davy R and Troccoli A (2012) "Interannual variability of solar electricity generation in Australia", Solar Energy, in press.
- Rowlinson B, Gunasekera D and Troccoli A (2012) "Potential role of renewable energy in water desalination in Australia", Journal of Renewable and Sustainable Energy, in press.
- Schaeffer R, Szklo A, Frossard Pereira de Lucena A, Soares Moreira Cesar Borba B, Pinheiro Pupo Nogueira L, Pereira Fleming F, Troccoli A, Harrison A, Boulahya MS (2011) "Energy Sector Vulnerability to Climate Change: a review", The International Energy Journal, in press.
- Troccoli A, Muller K, Coppin P, Davy R, Russell C and Hirsch AL (2011) "Long-term wind speed trends over Australia", to appear in J Climate.
- Troccoli A, Zambon F, Hodges K and Marani M (2011) "Storm surge frequency reduction in Venice under climate change", Climatic Change, DOI 10.1007/s10584-011-0093-x.
- Brayshaw DJ, Troccoli A, Fordham R, Methven J (2011) "The impact of large scale atmospheric circulation patterns on wind power generation and its potential predictability: A case study over the UK". Renewable Energy, 36, 2087–2096, doi:10.1016/j.renene.2011.01.025.
- Linkov I, Todd S, Bridges TS, Hady A, Jonsdottir I, Kiker G, Lambert J, MacBride M, Palma-Oliveira J, Ranger N, Russo E Troccoli A (2010) Brief Summary of a North Atlantic Treaty Organization (NATO) Advanced Research Workshop on Global Climate Change and Local Adaptation. Integrated Environmental Assessment and Management, 6:4, 617–618.
- Troccoli A, Boulahya MS, Dutton JA, Furlow J, Gurney RJ and Harrison M (2010) "Weather and Climate Risk Management in the Energy Sector", Bull. Amer. Meteorol. Soc., 6, 785-88. doi:10.1175/2010Bams2849.1
- Troccoli A (2010) "Seasonal Climate Forecasting: a Review", Meteorological Applications, 17, 251-268. doi: 10.1002/met.184. **(invited)**
- Shapiro M et al. (2010) "An Earth-system Prediction Initiative for the 21st Century", Bull. Amer. Meteorol. Soc., 1377-1388, doi:10.1175/2010BAMS2944.1
- Troccoli A (2009) "Climate and the development community", Weather, vol. 64, n. 1, 25-26.
- Troccoli A and Palmer TN (2007) "Ensemble Decadal Predictions from Analysed Initial Conditions", Phil. Trans. R. Soc. A, vol. 365, 2179-2191.
- Troccoli A and Huddleston M (2006) "Forecasting UK and European winters", Weather, vol. 61, n. 12, 356-357.
- Troccoli A (2005) "Perfecting imperfect models", Weather, vol. 60, n. 6, 171-172.
- Troccoli A et al. (2002) "Salinity adjustments in the presence of temperature data assimilation", Monthly Weather Review, vol. 130, 89-102.
- Segnschneider J et al. (2001) "Initialization of seasonal forecasts assimilating sea level and temperature observations", J. Climate, vol. 14, 4292-4307.
- Grey S, Haines K and Troccoli A (2000) "A study of temperature changes in the upper North Atlantic: 1950—94", J. Climate, vol. 13, 2697-2711.
- Troccoli A and Haines K (1999) "Use of the Temperature-Salinity relation in a data assimilation context", J. Atmos. Oceanic Technol., vol. 16, 2011-2025.

Submitted Peer Reviewed Articles

- Convertino M, Troccoli A, Linkov I and Catani F (2011) "Landslide Patterns as Fingerprints of Climate Change", submitted to Journal of Geophysical Research.

Conference Proceedings

- Gunasekera D and Troccoli A (2010) "Medium term prospects for wind and solar energy in Australia", Solar 2010 Conference, Canberra, Australia.
- Troccoli et al (2010) "Long term wind variability in Australia", 14th Australasian Wind Engineering Society Workshop, Canberra, Australia.

Dickson RR, Hulme M, Stevenson H, Troccoli A, Hoskins BJ, Houghton JT, Niemeyer SJ and Venables J (2003) "Abrupt climate change: can society cope? Discussion", *Phil. Trans. R. Soc. A*, vol. 361, 2019-2021.

Troccoli A and Rienecker MM (2002) "The importance of salinity in the assimilation of temperature observations in the tropical Pacific ocean", *Symposium on Observations, Data Assimilation, and Probabilistic Prediction, Orlando (USA)*, 107-110.

Newsletters

Troccoli (2011) "What's the energy forecast – bringing meteorology and generation together", *The Conversation*. Available at: <http://theconversation.edu.au/whats-the-energy-forecast-bringing-meteorology-and-generation-together-3406>.

Ferry et al. (2008) "Seasonal weather prediction: How the Ocean Fast Track Services contribute towards improved meteorological services", *Window on GMES*, 57-61. Available at: http://ec.europa.eu/enterprise/space_research/publications.htm.

Troccoli A. et al. (2008) "Coupled ocean-atmosphere medium range forecasts: the MERSEA experience", *ECMWF Newsletter*, 115, 27-35. Available at: <http://www.ecmwf.int/publications/newsletters/>

Troccoli A. and Doblas-Reyes F. (2007) "Ocean data make their appearance on the public web at ECMWF", *ECMWF Newsletter*, 114, 6-7. Available at: <http://www.ecmwf.int/publications/newsletters/>

Lavers D, Prudhomme C, Hannah DM and Troccoli A (2007) "Comparison of the potential skill of raw and downscaled GCM output for river flow forecasting: a UK case study", *CLIVAR Exchanges*, 12, 4, 33-25.

Ferry N, Gu er my J-F, Troccoli A and Gualdi S (2007) "Seasonal Prediction", *MERCATOR ocean quarterly newsletter*, n. 24, 11-13.

Davey M et al. (2006) "Multi-model multi-method multi-decadal ocean analyses from the ENACT Project", *CLIVAR Exchanges*, 11, 3, 22-25.

Technical Reports

Russell C, Troccoli A, Woods M and Davy R (2011) "Simulation of Wind Speed Time-Series at Potential Wind Farms in South-Eastern Australia for the Calendar years 2002 to 2010", Report for the Australian Energy Market Operator, Australia (commercial in confidence).

Russell C, Coppin P, Troccoli A and Price C (2010) "The FlatPVSolar (solflat) AWEFS module (Part II – Further Tasks Report)", Report for the Department of Resources, Energy and Tourism, Australia.

Russell C, Woods M, Davy R, Troccoli A and Coppin P (2010) "The VariabilityIndex (varind) AWEFS module (Part II – Further Tasks Report)", Report for the Department of Resources, Energy and Tourism, Australia.

Russell C, Woods M, Davy R, Troccoli A and Coppin P (2010) "The SimpleMultiSite (sms) AWEFS module (Part II – Further Tasks Report)", Report for the Department of Resources, Energy and Tourism, Australia.

Anderson DLT et al. (2003) "Comparison of the ECMWF seasonal forecast Systems 1 and 2, and performance of the 1997/8 El Ni o", *ECMWF Tech. Memo N. 404*.

Troccoli A Rienecker M, Keppenne CL and Johnson GC (2003) "Temperature data assimilation with salinity corrections: validation for the NSIPP ocean data assimilation system in the tropical Pacific ocean", *NASA Tech. Memo N. 104606*, vol. 24.

Anderson DLT et al. (2000) "Ocean data assimilation for seasonal forecasting", in *Exploitation of the New Generation of Satellite Instruments for Numerical Weather Prediction*, ECMWF.

Troccoli A et al. (2000) "Salinity adjustments in the presence of temperature data assimilation", *ECMWF Tech. Memo N. 305*.

Recent Invited Talks/Lectures

Troccoli et al (2011) "Mesoscale Modelling, Power Variability Forecasting and Storage Applications", 2nd Annual Wind Farms Australia, Sydney.

Troccoli et al (2010) "Long term wind variability in Australia", Keynote speaker, 14th Australasian Wind Engineering Society Workshop, Geoscience Australia, Canberra.

Troccoli A (2010) in session "Leveraging ESMAP's Climate Vulnerability Assessment Pilot", ESMAP Knowledge Exchange Forum, World Bank, Washington DC.

Troccoli A, Boulahya M and Furlow J (2010) "Management of Weather and Climate Risk in the Energy Industry", World Bank, Washington DC.

- Troccoli A (2009) "Weather, Climate and Renewable Energy at CSIRO", Climate and Sustainable Energy session at the World Climate Conference 3, Geneva, Switzerland.
- Troccoli A (2008) "Weather and Climate Prediction for the Energy sector", NATO Workshop "Weather/Climate Risk Management for the Energy sector", S. Maria di Leuca (I).
- Troccoli A (2008) "Environmental databases, ocean analyses and seasonal climate forecasts", a series of four 90-min lectures for the summer school "Climate forcings and global patterns", Istituto Veneto di Scienze Lettere ed Arti (IVLSA), Venezia (I).
- Troccoli A (2008) "Towards a seamless weather/climate system for climate risk management", Grantham Institute, Imperial College (UK).
- Troccoli A (2008) "The "extremes" of ECMWF: from Medium-Range coupled forecasts to decadal predictability", ICTP (Italy).
- Troccoli A (2008) "Seasonal climate prediction activities in Italy", CEH (UK).
- Troccoli A (2007) "Working at ECMWF extremes!", University of Reading (UK).
- Troccoli A (2006) Three lectures "Motivation and ingredients for a seasonal forecasting system", "Case study of the winter 2005-06 seasonal forecast for Europe" and "Skill, Interpretation and Communication" for the training course "Seasonal forecasts: the state of the art ...", ARPAL, Gevova (I).
- Troccoli A (2006) "Dynamical Seasonal-to-Interannual Predictions: The European dimension", Long-range weather forecast consultation: Forecasts for the energy industry and markets, London (UK).
- Troccoli A (2005) "What can Seasonal Forecasts offer to their users?", European Conference on Application in Meteorology, Utrecht (NL).
- Troccoli A, Anderson DLT and Balmaseda M (2003) "Progress and issues of ocean data assimilation for seasonal forecasts and state estimation the ECMWF viewpoint", UK Ocean Data Assimilation meeting, RAL, Didcot (UK).
- Troccoli A et al. (2002) "Value of High Accuracy Altimeter Data for Seasonal Predictions", EUMETSAT STG Science Working Group, EUMETSAT HQ, Darmstad (D).

Recent Conference Papers

- Rowlinson B, Troccoli A and Gunasekera D (2011) "Factors affecting the cost effectiveness of renewable energy in desalination plants in Australia", Greenhouse2011, Cairns, Australia, oral.
- Troccoli A et al. (2011) "Long-term wind speed linear trends over Australia", Greenhouse2011, Cairns, Australia, poster.
- Gunasekera D and Troccoli A (2010) "Medium term prospects for wind and solar energy in Australia", Solar 2010 Conference, Canberra, Australia, oral.
- Davey R, Troccoli A and Russell C (2010) "Solar Radiation in Australia: Effect of El Niño Southern Oscillation", European Meteorological Society Conference, Zurich, Switzerland, poster.
- Troccoli et al. (2010) "Long term wind variability in Australia, and worldwide", European Meteorological Society Conference, Zurich, Switzerland, oral.
- Troccoli et al. (2010) "Decline in Extreme Storm Surges in Venice under Climate Change", Australian Meteorological and Oceanographic Society Conference, Canberra, Australia, oral.
- Troccoli A et al. (2007) "Medium-Range and Seasonal Forecasting Using MERSEA 1/4° Ocean Model", Final Mersea Plenary meeting, Paris (France), oral.
- Troccoli A (2007) "Previsioni climatiche stagionali", CMCC Workshop, Sassari (Italy), oral.
- Troccoli A and Palmer TN (2007) "Ensemble Decadal Predictions from Analysed Initial Conditions", ENSEMBLES Meeting, Barcelona (Spain), oral.
- Troccoli A et al. (2007) "INCLUDE: Integration of Climate into Sustainable Development Policy for Africa and Europe", WCRP Workshop on Seasonal Prediction, Barcelona (Spain), poster.
- Troccoli A and Palmer TN (2007) "Ensemble Decadal Predictions from Analysed Initial Conditions", WCRP Workshop on Seasonal Prediction, Barcelona (Spain), poster.
- Lavers D, Prudhomme C, Hannah DM and Troccoli A (2007) "Seasonal river flow forecasting using multi-model ensemble climate data", AGU Meeting, S. Francisco (USA), poster.
- Troccoli A et al. (2006) "Strategy and first results of seasonal forecasting experiments", MERSEA 3rd Annual Meeting, London (UK), oral.
- Troccoli A, Gualdi S and Gueremy JF (2005) "Special Focus Experiment on (Medium Range &) Seasonal Forecasting: lessons from the ENACT and DEMETER projects and strategy in MERSEA", MERSEA 2nd Annual Meeting, Toulouse (F), oral.
- Troccoli A and Anderson DLT (2004) "Characterisation of extreme events on the Multi-annual timescale using a high-resolution Coupled Global Circulation Model" Workshop on Ensemble Methods, Exeter (UK), poster.

- Troccoli A and Anderson DLT (2004) "Characterisation of extreme events on the Multi-annual timescale using a high-resolution Coupled Global Circulation Model", 1st International CLIVAR Science Conference, Baltimore (USA), poster.
- Troccoli A, Anderson DLT and Stockdale T (2003) "Decadal predictions using a high resolution Coupled Global Circulation Model", International Young Scientists Global Change Conference, Trieste (I), oral.
- Troccoli A (2003) "Online wind stress correction using ocean data assimilation byproducts", RMS Biennial Conference, Norwich (UK), oral.

OTHER WORK-RELATED ACHIEVEMENTS

- 2010 Invited editor for papers of the Solar2010 Conference of the Australian Solar Energy Society (session on solar resources)
- 2008-9 Co-convenor at the European Meteorological Society/European Conference on Applications of Meteorology
Co-convened a session on climate science at the 2008 and 2009 Conferences.
- 2005-8 Organised National meetings of the Royal Meteorological Society (UK)
Organised three very well attended meetings: "*Perfecting imperfect models*" (2005), "Forecasting UK and European winters" (2006) and "*Towards a seamless system: Bridging the gap between the weather, climate and the development communities*" (2008).
- 2006 Training course lecturer at "Seasonal forecasts: the state of the art ...", Genova, Italy
- 2004-7 Co-founded and member of the RMetS specialist group on data assimilation
- 2004-7 Member of the meetings committee of the Royal Meteorological Society (UK)
- 2000 Assistant lecturer for a module at the University of Padova (Italy).
Taught half of "Dynamics of the atmosphere and oceans" module for the physics degree.
- 1997-9 Laboratory demonstrator and marking at the University of Edinburgh
- 1996 Awarded a quality prize by the University of Padova for didactic results during exchange programme in at the University of Edinburgh

MISCELLANEOUS SKILLS AND ACTIVITIES

Languages

Italian: native language

English: fluent, written and spoken. "*Certificate of Proficiency in English*" of Cambridge (1998).

French: conversational

Computing Knowledge

Operating systems regularly utilised: UNIX, LINUX, and WINDOWS

Regularly used for at least the last 15 years: Microsoft Office suite (Word, Excel, Power-Point), FORTRAN, IDL and LaTeX. Also experience with the statistics software R

Very good familiarity with HTML and Dreamweaver for web publishing

Transferable Skill Courses

Working with People: a 3-day course (CSIRO, 2011)

New People Leader Programme: a 3-day course (CSIRO, 2010)

Enterprise, Research and Innovation: a 1-week course (Univ. S. Marino, 2000)

Team Development: a 2-day course (Univ. Edinburgh, 1997)

Notable Social Activities

Presented "The climate debate: basic science and possible actions" to year 6 students at the Radford College, Canberra (2011)

President of the Parents and Community committee in the local school (2010)

Chair of a political party branch (2007-09)

Neighbourhood watch scheme coordinator (2004-09)

Played Santa Claus for Christmas children parties (1999-2004)