

Curriculum Vitæ

CINTIA BERTACCHI UVO

Professor

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Academic experience

- **Professor** in Water Resources Engineering at the Department of Water Resources Engineering, Institute of Technology, Lund University, Sweden, May 2007. Study of climate variability and change on surface and urban hydrology.
- **Associate Professor (Docent)** at the Faculty of Technology, The University of Oulu, Finland. Since 2011. Climate and Hydrology Interactions.
- **Associate Professor (Docent)** at the Department of Water Resources Engineering, Institute of Technology, Lund University, Sweden, 2003. Study of the effects of climate variability on spring discharge and hydro-electricity production in northern Europe. Seasonal hydrological forecast by data-driven downscaling of Global Circulation Models.
- **Postdoc** at the International Research Institute for Climate Prediction, Columbia University, USA, under the UCAR Visitor Scientist Program, Jan/2000 to Feb/2001. Study of the effects of North Atlantic Oscillation on winter precipitation over northern Europe. Downscaling of Global Circulation Models.
- **Assistant Professor** at the Department of Water Resources Engineering, Institute of Technology, Lund University, Sweden, 1998 – 2003.
- **Ph.D. Eng.** – “Influence of sea surface temperature on rainfall and runoff in Northeastern South America: Analysis and modeling”, Department of Water Resources Engineering, Lund University, 1998. Supervisor: Prof. Ronny Berndtsson
- **MSc.** – “The Intertropical Convergence Zone and its relationship to the precipitation on north – northeast Brazil”, National Institute for Space Research, São Paulo, Brazil, 1989.
- **B.Sc.** (Meteorology, minor in statistics) University of São Paulo, São Paulo, Brazil, 1983.

Appointments

- Affiliated Reseracher at the Euro-Mediterranean Centre for Climate Change, Bologna, Italy. 2009-2010.
- Department of Water Resources Engineering, Institute of Technology, Lund University, Sweden, 1998 – present. 50% of working time dedicated to research.
- Center for Weather Forecast and Climate Studies – CPTEC, National Institute for Space Research – INPE, Brazil, 1988 – 1998.
- Institute for Flight Protection, Brazilian Air Force, Brazil. 1983 – 1988.

Awards and Achievements

- Awarded “Outstanding reviewer of IWA Publishing journals 2007”
- Ranked Second for the Professorship in River Engineering at the School of Architecture and the Built Environment, Royal Institute of Technology, Stockholm. March 2006.
- Ranked first for the position of assistant professor at the Department of Meteorology, Federal University of Rio de Janeiro, Brazil, 1997.

Supervision

Supervision of Doctor of Sciences Thesis Works:

- Kean Forster. "Long-term hydrological analysis and forecast". Ongoing.
- Fabio Pereira. "Impact of changes in the biosphere to local climate and hydrology - How biofuel plantations affect local atmospheric circulation and rivers". Ongoing.
- Jóna Finndís Jónsdóttir. "Effects of climate variability on hydrology and hydropower in Nordic regions". Completed Sep 2007.

Co-Supervision of Doctor of Sciences Thesis Works:

- Johan Striberger: "Vatnajökull meltwater discharge variability: An unexplored Holocene climate sensor in the Nordic Seas". Ongoing
- Sihem Testouri. "Erosion modeling of arid soils using a scaling approach". Completed May 2009.
- Aman Mohammad Kalteh. "Improved river management and flood protection by rainfall-runoff modelling using neural networks". Completed May 2007.
- Tinh Dang Nguyen. "Preparedness and mitigation measures to cope with drought in Vietnam's central highland". Completed Oct 2006.

Supervision of Licentiate Works:

- Patrik Nilsson "Hydrological Seasonal Forecast: analysis and modelling". Department of Water Resources Engineering, Lund University, Sweden. Completed May 2006.

Supervision of Master Thesis and Degree works:

- Total of 19 works supervised.

Post doc collaborator:

- Mehridin Tursunov 2011.
- Marcio Moraes: 2010.
- Diego Rivera: 2009.

International Experience

- **Guest Senior Researcher** at the Euro-Mediterranean Centre for Climate Change, Bologna, Italy. February to May 2009. Study of short- and long-term discharge variability of the main rivers at the Mediterranean basin.
- **Guest Senior Researcher** at the Institute for Astronomy, Geophysics and Atmospheric Sciences, University of São Paulo, Brazil, June 2007 – May 2008. Study of the effects of climate variability on the cerrado region in central Brazil and the Upper Paraguay River basin. Seasonal climate and hydrological forecast.
- **Guest researcher** at the South African Weather Bureau, Pretoria, South Africa. August 2006 and October 2008.
- **Guest researcher** at the Institute for Hydraulics Research, Federal University of Rio Grande do Sul, Brazil. November – December 2004, November – December 2006, September 2008.
- **Guest researcher** at the Institute for Astronomy, Geophysics and Atmospheric Sciences, University of São Paulo, Brazil. Nov/Dec, 1999.
- **Guest researcher** at the Institute of Environmental Systems, Kyushu University, Japan. September 1 to November 30, 1998; August, 1999; August 2000.
- **Vice – director** for science affairs. Brazilian Meteorological Society in 1990 – 1992 and 1992 – 1994.

- First International Training Course on Theoretical and Practical Aspects of Short Term Climate Prediction at International Research Institute for Climate Prediction, Columbia University, USA. April, 1993 to February, 1994.
- Training on Climate Forecast at the Climate Prediction Center, USA. January to May, 1990.
- Training on Intertropical Convergence Zone Monitoring – Centre de Recherche Océanographique de Dakar – Thiaroye, Senegal. February to May, 1988.

Maternity Leave

- Nine complete months of maternity leave during the period 2001 – 2004.