

# Curriculum Vitae

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Last update: 29 October 2012



## Valentina Airi

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Marine Science Group  
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Home: Via Castellaccio 15/B, Crespellano (BO), European Union, Italy

Nationality: Italian  
Date of Birth: 07 September, 1979  
Place of Birth: Muravera (CA), European Union, Italy  
Gender: Female  
Marital Status: Single

## Education

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- 2011 – today    Ph. D. in Biodiversity and Evolution: “Relationship between environmental parameters and reproductive strategies in Mediterranean scleractinian corals”. Alma Mater Studiorum – University of Bologna, (Italy).
- 2009            Admitted to Professional "Biologists National Order". Qualification to practice the profession of Biologist. **Enrollment N° 060480**.
- 2005            Profession Biologist qualification certificate (state examination). Alma Mater Studiorum – University of Bologna, Bologna (Italy)
- 2004            Master Degree (M. Sc.) in Biological Sciences, Alma Mater Studiorum – University of Bologna, Bologna (Italy). Title of M. Sc. Thesis: “Sexual reproduction of the solitary sunset cup coral *Leptopsammia pruvoti* (Scleractinia, Dendrophylliidae) in the Mediterranean. Quantitative aspects of the annual reproductive cycle. Supervisor: Prof. Francesco Zaccanti, co-supervisor: Dr. Stefano Goffredo.
- 1998            Scientific High School Degree at the Liceo Scientifico “Giordano Bruno”, Muravera (CA, Italy).

## Areas of scientific interest

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Biology and reproductive strategies in temperate and subtropical corals, and their relationship with environmental parameters; global climate change and its effect on reproductive biology; the use of contemporary corals in predictive models concerning with global climate change.

## Academic professional experience

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- 2004 – today    Research support: Marine & Freshwater Science Group Association, Bologna (Italy). Social Advancement Association devoted to the support and development of the research in the fields of marine and freshwater, bio-ecology and environmental education ([www.msgassociation.org](http://www.msgassociation.org)).
- 2007 – 2010    Statistical processing data: Fashion House EMILIO PUCCI S.R.L.
- 2004 – 2007    Environmental and science education: LIFE LEARNING CENTER, the first permanent Italian Center of training, informal education and research on Biology and Biotechnology Sciences. Support and assistance in the laboratory activities on biotechnology, genetics, molecular biology and ecology.
- 2006            Collaboration to research project: ICRAM - Central Institute for Scientific and Technological Research applied to the Sea (actually ISPRA). State Institute of scientific research related to the marine environment. Collaboration to research project to write a book on the biology and legal aspects of Marine Protected Species in the Mediterranean Sea. Training on Marine Protected Areas and protected species.

## Other professional experience

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- 2006            Marine biology Instructor TRIMIX SCUBA ASSOCIATION (CFI 001 IT).
- 2004            Advanced Open Water Diver SSI (2300402650A)
- 2002            International certificate 1 star CMAS (P1 I22081 BO/02)

## Participation to research projects

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2011 – today    Ph. D student. “Corals and Global Warming: the Mediterranean versus the Red Sea” (CoralWarm; [www.coralwarm.eu](http://www.coralwarm.eu)), coordinated by Dr. Stefano Goffredo, Prof. Zvy Dubinsky and Prof. Giuseppe Falini, funded by the European Research Council (FP7 – IDEAS programme), European Union.

## Supervision of students

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2010 – 2011    Selena Prantoni; Master of Science in Biodiversity and Evolution; Thesis title: “Variation of the reproductive output in the coral *Leptopsammia pruvoti* (Scleractinia, Dendrophylliidae) along a latitudinal gradient of temperature”; supervisor: Stefano Goffredo (BES); co-supervisor: Dr Valentina Airi (BES).

2010 – 2011    Francesca Gizzi; Master of Science in Biodiversity and Evolution; Thesis title: “Variation of the reproductive output in the coral *Balanophyllia europaea* (Scleractinia, Dendrophylliidae) along a latitudinal gradient of irradiance and temperature”; supervisor: Stefano Goffredo (BES); co-supervisor: Dr Valentina Airi (BES).

2010 – 2011    Marta Rocchi; Bachelor of Science in Biological Sciences; Thesis title: “Preliminary results of reproduction of the solitary coral *Caryophyllia inornata* (Scleractinia, Caryophylliidae).”; supervisor: Stefano Goffredo (BES); co-supervisor: Dr Valentina Airi (BES).

2010 – 2011    Chiara Marchini; Master of Science in Biodiversity and Evolution; Thesis title: “Reproduction of the solitary corals *Caryophyllia inornata* (Scleractinia, Caryophylliidae). Morphological aspects of gametogenesis and ontogenesis”; supervisor: Stefano Goffredo (BES); co-supervisor: Dr Valentina Airi (BES).

## Active participation in scientific meetings

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### ABSTRACTS

Goffredo S, Marchini C, Rocchi M, **Airi V**, Caroselli E, Falini G, Levy O, Dubinsky Z, Zaccanti F (2011) Reproduction of the solitary coral *Caryophyllia inornata* (Scleractinia, Caryophyllidae) in the Mediterranean. LLXXII National meeting of Italian Zoological Union, Bologna (Italy), 5-8 September 2011 (Original language: Italian).

Goffredo S, Radetic' J, **Airi V**, Zaccanti F (2004) Sexual reproduction of the solitary coral *Leptopsammia pruvoti* (Scleractinia, Dendrophylliidae) in the Mediterranean. Tenth International Coral Reef Symposium, Okinawa (Japan) 28 June -2 July 2004.

### IN EXTENSO CONGRESS PROCEEDINGS

Goffredo S, Marchini C, Rocchi M, **Airi V**, Caroselli E, Falini G, Levy O, Dubinsky Z, Zaccanti F (2012) Reproduction of the solitary coral *Caryophyllia inornata* (Scleractinia, Caryophyllidae). Congress “Codice Armonico”, III Regional Congress of Natural Sciences, “Tuscany Environment”, Castiglioncello (Livorno, Italy), 14-16 March 2012. ETS, p. 188-198 (Original language: Italian).

## Articles in peer review / impact factor journals

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Goffredo S, Marchini C, Rocchi M, **Airi V**, Caroselli E, Falini G, Levy O, Dubinsky Z, Zaccanti F (2012) Unusual pattern of embryogenesis of *Caryophyllia inornata* (Scleractinia, Caryophyllidae) in the Mediterranean Sea. Maybe agamic reproduction? Journal of Morphology, 273:943-956

- Goffredo S, Gasparini G, Marconi G, Putignano MT, Pazzini C, **Airi V**, Zaccanti F (2011) Sexual reproduction in the Mediterranean endemic orange coral, *Astroides calycularis* (Scleractinia, Dendrophylliidae). *Bulletin of Marine Science*, 87:589-604
- Goffredo S, **Airi V**, Radetić J, Zaccanti F (2005): Sexual reproduction of the solitary sunset cup coral *Leptopsammia pruvoti* (Scleractinia, Dendrophylliidae) in the Mediterranean. 2. Quantitative aspects of the annual reproductive cycle. *Marine Biology*, 148:923-932.
- Goffredo S, Radetić J, **Airi V**, Zaccanti F (2005): Sexual reproduction of the solitary sunset cup coral *Leptopsammia pruvoti* (Scleractinia, Dendrophylliidae) in the Mediterranean. 1. Morphological aspects of gametogenesis and ontogenesis. *Marine Biology*, 147(2):485-495.

## Languages

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Mother tongue                      Italian

Other Languages                      English: good reading, writing and speaking  
French: scholastic reading, writing and speaking

## Social and organizational skills and competences

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Ability to deal directly with the public and guidance counseling; ability in the drafting activities printing, essential for orientation events organized by the University, gained from the Service Information and Communication to the Public (URP) of the University of Bologna. Capability to team work, skills learned during the sampling diving activity, where it's essential to have a perfect harmony and team coordination. Ability to coordinate small groups during practical laboratory skills, gained from Life Learning Center (Bologna).

## Technical skills and competences

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I have a good knowledge of Microsoft-based software (Word, Excel, PowerPoint, Outlook) and Internet. I have a discrete knowledge of bioinformatics software (RasMol), professional software for advanced statistics (SPSS) and image editing like Photoshop and Illustrator. I have a great experience to use of software for data acquisition and image processing (Nikon NIS-Elements, LEICA Q500IW).