

## Curriculum Vitae et Studiorum

### CHIARA AMADORI

Given Name: Chiara

Family Name: Amadori

Current affiliation: University of Pavia (Unipv),  
Department of Earth and Environmental Sciences,  
Via Adolfo Ferrata 1, 27100 Pavia (PV), Italy.

### CONTACTS

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### CURRENT POSITION

- Postdoctoral position at University of Pavia. Supervisor: Proff. Andrea Di Giulio and Giovanni Toscani.

### EDUCATION

- Ph.D. in Geology (Stratigraphy and Basin Analysis, GEO/02). XXX Cycle, University of Pavia. Grant funded by the Department of Earth and Environmental Sciences of the University of Pavia. Dissertation on February 22<sup>nd</sup>, 2018.  
**“Architecture of the Po Plain-Northern Adriatic Basin since the Messinian Salinity Crisis through Pliocene-Pleistocene time”**. In partnership with Eni Upstream (San Donato, Italy).  
Adviser: Prof. Di Giulio Andrea (Unipv). Co-Adviser: Prof. Toscani Giovanni (Unipv), Dott. Garcia-Castellanos Daniel (ICTJA-CSIC, Spain).
- Master degree in Geology, July 22, 2014. Final mark: 110/110 *cum laude*. “Integrated HIRES of the pre-evaporitic Early Messinian event at the Majella Mt., central Apennines, Italy.” Roma Tre University, Science Department. Adviser: Prof. Domenico Cosentino (Univ. Roma Tre)  
Co-Adviser: Prof. Paola Cipollari (Univ. Roma Tre), Prof. Antonio Caruso (Univ. Palermo), Dott. Fabio Florindo (INGV, Roma).
- Bachelor degree in Geology, July 22, 2011. Final mark: 110/110 *cum laude*. “Geological Mapping (scale of 1:10 000) of Ernici Mountains (central Apennines), Veroli town area (Frosinone, central

Italy)” and “Palaeontological analysis: Ostracofauna of the Çankiri Basin (Turkey)”. RomaTre University, Science Department. Advisers: Prof. Maurizio Parotto, Prof. Elsa Gliozzi (Univ. Roma Tre). Co-Adviser: Prof. Giampaolo Cavinato (CNR, Univ. La Sapienza).

- High-school diploma, focusing on Science (Maturità Scientifica Piano Nazionale Informatico), July 2007, Liceo Scientifico “Sandro Pertini”, Ladispoli (RM). Final mark 92/100.

## **PUBLICATIONS**

- **Amadori C.**, Ghielmi M., Mancin N., Toscani G. The evolution of a coastal wedge in response to Plio-Pleistocene climate change: the Northern Adriatic case. In preparation for *Sedimentary Geology*.

### **2019**

- **Amadori C.**, Toscani G., Di Giulio A., Maesano F., D’Ambrogi C., Ghielmi M. (2019) From cylindrical to non-cylindrical foreland basin: Pliocene-Pleistocene evolution of the Po Plain-Northern Adriatic basin (Italy). *Basin Research* v. 31 (2). DOI: 10.1111/bre.12369

### **2018**

- **Amadori C.**, Fantoni R., Ghielmi M., Toscani G., Di Giulio A. (2018). 14.C- Po Plain-MSC Surfaces (2). in: J. Lofi, Ed., *Seismic Atlas of the Messinian Salinity Crisis markers in the Mediterranean Sea*. Volume 2. Mémoires de la Société Géologique de France, n.s., t. 181, and Commission for the Geological Map of the World, p. 50. Doi: 10.10682/2018MESSINV2. ISBN 9782917310373
- **Amadori C.**, Garcia-Castellanos D., Toscani G., Sternai P., Fantoni R., Ghielmi M., Di Giulio A. (2018) Restored topography of the Po Plain-Northern Adriatic Region during the Messinian base-level drop – implications for the physiography and compartmentalization of the paleo-Mediterranean basin. *Basin Research*. v. 30 (6), pp. 1247-1263. DOI: 10.1111/bre.12302.

### **2017**

- **Amadori C.**, Garcia-Castellanos D., Toscani G., Di Giulio A., Fantoni R., Ghielmi M. (2017). Restoration of paleo-shorelines through lithospheric 3D modeling and backstripping analysis: the example of the Po Plain-Northern Adriatic region during Late Messinian sea-level drop. OMC 2017, 29-31 March 2017, Ravenna (Italy). Scopus: 2-s2.0-85051527858.

## **CONFERENCE PARTICIPATIONS**

### **2018**

- **Amadori C.**, Di Giulio A., Toscani G. Po Plain-Northern Adriatic Foreland basin source-to-sink sediment system during Plio-Pleistocene time: evaluating tectonics vs. climate as erosion drivers. Talk

at WGSF, 27-29 June 2018, Trinity College, Dublin.

## **2017**

- **Amadori C.**, 2017. The source-to-sink sediment system in the Po Plain-Northern Adriatic foreland basin: 3D tectono-sedimentary evolution and sediment flux during Plio-Pleistocene. Congress SIMP-SGI-SOGEI-AIV, 2017. 3-6 September, Pisa, Italy.
- **Amadori C.**, Toscani G., Ghielmi M., Maesano F.E., D'Ambrogi C., Lombardi S., Milanesi R., Panara Y. and Di Giulio A., 2017. 3D Architecture and evolution of the Po Plain-Northern Adriatic Foreland basin during Plio-Pleistocene time. EGU, 23-27 April 2017, Vienna. Talk.
- **Amadori C.**, Di Giulio A., Toscani G., Lombardi S., Milanesi R., Panara Y. and Fantoni R., 2017. Tectonics vs. Climate efficiency in triggering detrital input in sedimentary basins: the Po Plain-Venetian-Adriatic Foreland Basin (Northern Italy). EGU, 23-27 April 2017, Vienna. Poster.
- **Amadori C.**, Garcia-Castellanos D., Di Giulio A., Fantoni R., Ghielmi M., Sternai. P. and Toscani G., 2017. Messinian post-evaporitic paleogeography of the Po Plain-Adriatic region by 3D numerical modelling: implications for the Central Mediterranean desiccation during the MSC. EGU, 23-27 April 2017, Vienna. Poster.

## **2016**

- **Amadori C.**, Garcia-Castellanos D., Toscani G., Di Giulio A., Fantoni R., 2016. The coast line in the Po Plain-Northern Adriatic basin during the Latest Messinian: 3D modeling and backstripping analysis. COST-ANR MEDSALT SYMPOSIUM. University of Palermo, 46-26 October 2016, Italy. Talk.
- **Amadori C.**, Garcia-Castellanos D., Fantoni R., Di Giulio A., Toscani G. 2016. Unraveling the coast line in the Po Plain-Northern Adriatic region during the late Messinian sea level drop. 88° Congresso Nazionale della Società Geologica Italiana, 7-9 Sept. 2016, Napoli. Talk.
- **Amadori C.**, Ghielmi M., Fantoni R., Di Giulio A., Toscani G., Mancin N. 2016. High-resolution Plio-Pleistocene chronostratigraphy of the Friulian-Venetian basin by seismic and well-log correlations. 88° Congresso Nazionale della Società Geologica Italiana, 7-9 Sept. 2016, Napoli. Poster.

## **2015**

- **Amadori C.**, Di Giulio A., Mancin N., Toscani G., 2015. Climate forcing on Pleistocene detrital flux in sedimentary basins: what is really important in climate change? Insight into Venice record. Sedimentary Basins Jena, IAS 2015. Poster.

## **2014**

- Grossi F., **Amadori C.**, 2014. Il Museo geopaleontologico “Ardito Desio” di Rocca di Cave (Monti Prenestini, Lazio). Un esempio di didattica di Scienze della Terra. In: Geografie vol.III, “Introduzione alla didattica delle Geoscienze”. Le Lettere, pp. 113-119.
- **Amadori C.**, Cipollari P., Cosentino D., Florindo F., Caruso A., Lo Mastro S. 2014. High-resolution stratigraphy of the pre-evaporitic/evaporitic transition in the late Messinian Adriatic foreland domain”. SGI-SIMP 2014, “The Future of Italian Geosciences - The Italian Geosciences of the Future”, 10-12 Sept 2014, Milan. Talk.

### **2011**

- Grossi F., **Amadori C.**, 2011. An “outdoors laboratory” in the Earth Science didactics and education: the example of the “Ardito Desio” Geo-Palaeontological Museum of Rocca di Cave (Prenestini Mountains, Latium). Geoitalia 2011 - VIII Forum Italiano di Scienze della Terra, 19-23 Sept. 2011, Torino. Talk.

### **2010**

- **Amadori C.**, Grossi F. 2010. The “Ardito Desio” GeoPalaeontological Museum of Rocca di Cave (Prenestini Mountains, Latium): an example of Earth Science didactics and education. 85° Congresso Nazionale della Società Geologica Italiana, 6-8 Sept 2010, Pisa. Talk.

## **SHORT-TERM RESEARCH STAGES**

### **2019**

- Visiting Post-Doctoral Research Fellow at University of Arizona (Tucson, USA), from February, 2019 to August, 2019 supervised by Prof. Barbara Carrapa. Topic: Apatite Fission Track Analysis

### **2018/2019**

- Visiting Post-Doctoral Research Fellow at University of Padua (Padua, Italy), from October, 2018 to January, 2019, supervised by Prof. Massimiliano Zattin. Topic: Apatite Fission Track Analysis

### **2015/2016**

- Visiting Doctoral Student at ICTJA-CSIC (Barcelona, Spain) for 3 months (10/2015 to 02/2016), supervised by. Dott. Daniel Garcia-Castellanos. Topic: backstripping-flexural analysis

## **GRANTS & AWARDS**

- 26<sup>th</sup> “Gustavo Sclocchi” Theses Award 2018, for PhD thesis in Engineering, Geo-Sciences and Energy industry related discipline. Prize (2400 €) provided by SPE (Society of Petroleum Engineers – Italian Section), EAGE (European Association of Geoscientists & Engineers) and Assomineraria (Italian

Petroleum and Mining Industry Association - Hydrocarbon and Geothermal Resources Sector).

- Grant for a training school in “Seismic interpretation applied to salt basins in different geodynamic settings”. Organizing Committee: Andrea Moscariello, Alexandros Konstantinou, Claudia Bertoni, Daniel Garcia-Castellanos. Department of Engineering, University of Nicosia, Nicosia, Cyprus, September 11-15, 2017. 3 cfu. ID: ECOST-TRAINING\_SCHOOL-CA15103-110917-085721.
- Grant for a training school in “Advanced Training School on Sustainable Blue Growth in Mediterranean and Black Sea countries”. Provided by Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, OGS, Trieste. July 4-8, 2016.

### **MASTER’S AND SHORT COURSES ATTENDED**

- Training DecisionSpace Geosciences. Hallibarton. San Donato Milanese (MI). 18-20/09/2018
- Quantifying sediment budgets from source to sink – with emphasis on evaluating the effects of disturbances. Amy East and Jonathan Warrick (USGS). 26<sup>th</sup> June 2018, Trinity College, Dublin.
- Multidisciplinary approach field trip in Asinara Island (Sardinia, Italy). 17-20/06/2018.
- Workshop on carbonates by Prof. Luis Pomar (Univ. of the Balearic Island). 14-15/05/2018 at Univ. La Sapienza (Roma).
- Field Trip to Laga Basin (Central Apennines, Italy): Submarine channels and lobes architecture in the Messinian turbidite deposits. Prof. Salvatore Milli (Univ. La Sapienza, Roma). 3-7/05/2018.
- Multidisciplinary approach field trip in Mt. Adamello (Italian Alps): relations among magmatism, deformations and metamorphism during Alpine orogeny. Rifugio Tita Secchi (BS). Dott. Matteo Maino, Dott. Matteo Alvaro, Dott. Antonio Langone, Dott. Alessio Sanfilippo. 11-13/07/2017.
- TISC: Modeling the evolution of continental topography, erosion and sedimentary basins. ICTJA-CSIC, Barcelona (Spain). Dr. Daniel Garcia-Castellanos. 7-10 November 2016.
- Multidisciplinary approach field trip in Central Alps: “Ductil deformation and high-pressure metamorphism”. Cima di Gagnone – Val Varzesca, Canton Ticino (CH). Dott. Filippo Schenker, Dott. Matteo Maino, Dott. Matteo Alvaro, Dott. Antonio Langone, Dott. Alessio Sanfilippo, Dott. Giovanni Toscani. 21-21/06/2016.
- Dinamica Litosferica (Master Course of Geologia i Geofisica de Reservoiris): Prof. Manuel Fernandez Ortiga (20,8 h). Universitat de Barcelona, 2015/2016.
- Modelizaci3n 3D geologica y de reservoirios (Master Course of Geologia i Geofisica de Reservoiris). Dott. Oscar Gratacos (10 h theory + 16 h lab.). Universitat de Barcelona, 2015/2016.

- Sedimentologia clastica (Master Course of Geologia i Geofisica de Reservoiris): docente coordinatore Eduard Remacha (10,75 h theory + 12 h field trip in Ager, Pirenei). Universitat de Barcelona, 2015/2016.
- Sedimentary provenance analysis. University of Gottingen, Geoscience Center, Department of Sedimentology & Environmental Geology. 29/09 to 02/10/2015.
- Elasticity of crystalline materials: theory and practice (3CFU). Ross J. Angel, Matteo Alvaro. University of Pavia. 5-7/05/2015.
- Tectonics of Thrust Belt\_Thermocronology. Prof.ssa Barbara Carrapa e Prof. Peter DeCelles (Arizona UNiv.). Università di Roma Tre (Rome, Italy), 16-18/03/2015.
- Introduction to the OpenFlow Environment. Beicip FranLab, IFP, Rueil Malmaison (Paris). 17-18/06/2015.
- Petroleum Geology, by Shell. Università di Parma (Italy). 9-12/12/2014.

## **TEACHING AND MENTORING EXPERIENCES**

Authority on the subject for the MSc course “Sequence Stratigraphy and Basin Analysis” since February 2017 to recent.

### **2019**

- Teaching Assistant. University of Arizona, Geosciences Department. Field camp, July 9<sup>th</sup>-August 11<sup>th</sup>.

### **2018/2019**

- MASTER DEGREE CO-TUTOR of Greta Vinella. Master Thesis on the 3D reconstruction and evolution of the Piedmont Basin. In partnership with Eni E&P.
- SEMINARS for the Bachelor degree course in Geology: evaporates and evaporative sedimentary basin, Messinian Salinity Crisis.
- SEMINARS for the Master degree in Natural Science, Ecology course: Passive and Active Margins, Messinian Salinity Crisis.
- SEMINAR for the Master degree course of Seismic interpretation for geological modelling: 3D modelling of a foreland basin.

### **2017/2018**

- TUTORING (36h), for the Bachelor degree course in Geological Survey. Supervisor: Dott. Giovanni Toscani.
- SEMINARS for the Master degree in Natural Science, Ecology course: Passive and Active Margins, Messinian Salinity Crisis.

## **2016/2017**

- SEMINARS for bachelor degree in Geology: evaporates and evaporative sedimentary basin, Messinian Salinity Crisis.
- SEMINARS for Master degree course in Sequence stratigraphy and Basin Analysis: Geohistory analysis, burial history, Foredeep basin, 3D modelling, Messinian Salinity Crisis.
- MASTER DEGREE CO-TUTOR: Simone Redaelli, Mattia Buscaglia.

## **2015/2016**

- SEMINAR, “Piano Lauree Scientifiche” PLS-L34-UniPV: Geology of the Po Plain.
- TUTORING (20h) for the Bachelor degree course of Geological Survey. Supervisor: Dott. Giovanni Toscani.
- TUTORING (20h) for the Master degree course of Stratigraphy and Basin Analysis (in English). Supervisor: Prof. Andrea Di Giulio.
- MASTER DEGREE CO-TUTOR: Stefano Lombardi, Yuri Panara, Riccardo Milanesi, Francesco Benevelli

## **TECHNICAL AND PRACTICAL SKILLS**

- Excellent working knowledge of Mac and Windows environments
- Excellent working knowledge of Move (Midland Valley) for 3D analyses
- Good working knowledge of Decision Space (Openworks) for seismic data interpretation.
- Good working knowledge of Seiswork (Openworks) for seismic data interpretation.
- Good working knowledge of Basin Mod (Prat River Associates) for 1D backstripping modeling

## **LANGUAGES**

- Italian: Mother language.
- English: Fluent in speaking, reading and writing.

## **ACADEMIC ACTIVITY AND MEMBERSHIPS**

- Member of the Earth and Environmental Sciences Department council as Post-Doctoral Researchers delegate (2019-2020).
- Member of the Academic Senate of the University of Pavia as the only Ph.D students representative (2016-2018).
  - Member of “*Commissione Ricerca Scientifica e Trasferimento Tecnologico*”

- Member of “*Commissione Permanente Studenti*”
- Member of “*Commissione Ricerca e Terza Missione*”
- Member of “*Commissione per la valutazione dello stress sul lavoro e lavoro-correlato*” (since September 2017).
- Member of the Earth and Environmental Sciences Department council as Ph.D students delegate (2016-2018).
- Vice-president of ADP, Association of Pavia's Ph.D students and Post-doc, since September 2016 to recent.
- Full member of IAS (International Association of Sedimentologists).

## **JOURNAL REFEREE**

Basin Research

*Chiara Luadon*