

PERSONAL INFORMATION

Anna Maria Marotta



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 a.m.marotta

PRESENT POSITION

Full Professor - SSD GEO/10 – Solid Earth Geophysics, SC 04/A4 Geophysics - at the Department of Earth Sciences "A. Desio" of the University of Milan

WORK EXPERIENCE

From 01/2017 - present

Full Professor - SSD GEO10
University of Milan, Department of Earth Sciences "A. Desio"

From 03/2005 to 12/2016

Associate Professor - SSD GEO10
University of Milan, Department of Earth Sciences "A. Desio"

a.a. 2005/2006

Lecturer
University of Milano-Bicocca

2009/2010

2010/2011

a.a. 2000-2001

Professor in Charge
Master HypoGeo: 'Idrodinamica nelle formazioni geologiche porose'
University of Milan

From 01/2000 to 02/2005

Researcher - SSD D04A (dal 01/04/2001 GEO10)
University of Milan, Department of Earth Sciences "A. Desio"

From 07/1998 to 12/1999

Post-Doc
GeoForschungsZentrum Potsdam Germany
EU-funded project "Paleozoic Amalgamation of Central Europe", HCM N. CHRXT94-0607

02/1999

Visiting scientist
University of Copenhagen, Institute of Geology

From 05/1996 to 05/1998

Post-Doc
Institute of Earth Science 'Jaume Almera' CSIC Barcelona, Spain
EU-funded project "Geodynamic modeling of the Western Mediterranean", HCM N. CHRX-CT94- 0607.

EDUCATION AND TRAINING

02/1992

Degree in Physics
University of Lecce

From 03/1992 to 09/1992

Master in 'Industrial and Applied Mathematics'
SASIAM-FORMEZ School - Bari

From 1993 to 1996

PhD in Earth Sciences
University of Bari

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C2	B2	B2	C1
Spanish	B2	B1	B1	B1	A1

Communication skills

- Good communication skills in the following areas:
- *Public Speaking* - acquired during the experience as chairman of sessions and speaker at scientific congresses and participating, as a member of the research groups, to national and international projects, during the frequent exchange meetings;
- *Grammatical and lexical mastery*, ability to synthesize, empathy and listening skills - acquired during the experience as teacher at secondary schools and as professor at university;
- *Writing and synthesis skills* - acquired during the writing of numerous scientific papers published on national and international journals;
- *Scientific dissemination* - acquired by participating, as a member of the Commission for the Dissemination of the Department to which A.M.M. refers, in dissemination initiatives at secondary schools and during the institutional OpenDays at the University of Milano.

Organizational / managerial skills

- Good organizational and management skills acquired during the experience as:
- Coordinator and co-coordinator of some research projects (e.g. Co-coordinator of the ESA-ALENIA Project entitled 'Laser Doppler Interferometry Mission for the Determination of the Earth Gravity Field'; Coordinator of the PRIN 2005 Project entitled 'Deformation Analysis and of the effort in the Central European Basin System: integration between numerical modeling and geological, geophysical and satellite data ").
 - Member of organization committees of international congress (e.g. the DRT 2007-16th Conference on Deformation Mechanisms, Rheology and Tectonics).
 - Convener of several sessions at national and international congresses.
 - A.M.M. also organized and has managed since 2010 the Laboratory of Numerical Modeling of Geodynamic Processes, at the Department of Earth Sciences of the University of Milan.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Advanced	Advanced	Advanced	Basic	Intermediate

Specific computer skills

Excellent knowledge of Windows and MacOS operating systems and Office applications for Microsoft and Apple. In particular, excellent ability to use Word, Power Point, Excel applications. Advanced skills of Fortran programming and development of numerical algorithms. Excellent capabilities of management and representation of database through graphic applications such as Excel, GenericMappingTools, Corel Draw, Adobe Photoshop, Adobe Illustrator.

PROFESSIONAL SKILLS

SCIENTIFIC ACTIVITY

Research

The scientific activity of A.M.M. mainly concerns the following research topics:

1. State of deformation and stress, at different levels in the lithosphere, induced by the combined effects of horizontal tectonic forces and post-glacial rebound.
2. Dynamics of the crust-mantle system at the active margins, with particular interest for:
 - i) the role played by variations in the regional kinematics;
 - ii) the variation of the geometry and the stress regime in the subduction complexes;
 - iii) the gravitational effects of slow tectonic processes.
3. Integration between predictive geophysical models and natural data of different nature (geophysical, geodetic and geological), aimed at validating geophysical models and reducing the ambiguity among different geodynamic hypotheses.
4. Assimilation of statistical methodologies within direct geophysical models, aimed at defining a model covariance matrix that allows a more significant comparative analysis between natural data and model predictions.

BIBLIOMETRIC INDEXES - 1° OTTOBRE 2019

108 scientific products, 63 on peer-reviewed JCR journals

SCOPUS: Citations 1093; H index 20;

Google Scholar: Citation 1418; H index 23; i10-index 32

Technology transfer

Thanks to her skills in predictive geophysical modeling and in the integration of model predictions and different types of natural data, A.M.M. has established and intensified over the years the collaboration with national and international companies and agencies, leaders in the study, development and implementation of space missions.

Specifically, as part of the ESA-funded projects "Laser Doppler Interferometry Mission for the Determination of the Earth Gravity Field (2004)" and "Gravitational Seismology (2018-2019)", A.M.M. collaborated with Thales Alenia Space Italy (TAS-I) S.p.A., a leading company in the study, design and development of space missions for the measurement of the Earth's gravitational field, from Lageos II and GOCE to the most recent ESA NGGM (Next Generation of Gravity Mission), still under design.

A.M.M. he has also collaborated with the Italian Space Agency, both as Scientific Director of the Geophysical Forward Modeling component and as a member of the research units, within various scientific projects, such as:

- ASI project SISMA: *Seismic Information System for Monitoring and Alert*, 2007-2010;
- GOCE-ITALY project: *Gravity and steady state Ocean Circulation Explorer*, 2007-2008;
- ASI project: *Feasibility Study on Seismic Hazard Management*, 2004;
- GOCE-ITALY project: *Working Group on Measurements and Methods of High Precision Space Geodesy*, 2000.

Editorial Activity

Since 2016 A.M.M. has been Member of the Editorial Board of *Heliyon* (ISSN: 24058440).

A.M.M. was also Guest Editor of several Special Volumes:

- Vol. SP332 (2010), Geological Society of London, ISBN:978-1-86239-295-3, pp. 240, "Advances in interpretation of geological processes: refinement of multi-scale data and integration in numerical modeling".
- Vol. 128 (2008), Italian Journal of Geosciences, Thematic Section: "Keynote lectures of the 16th Conference of Deformation mechanism, Rheology and Tectonics (DRT) 2007".
- Vol. 5 (issue I) (2007), Rend. Soc. Geol. It., "16th Conference of Deformation mechanism, Rheology and Tectonics (DRT) 2007".
- Vol. 397 (Issue 1-2) (2005), Tectonophysis, "Integration of Geophysical and Geological data and Numerical model in Basins".

Charges in internal Commissions of the

- 2007 - 2012 Member of the Area n. 4 Committee - Geological Sciences.
- 2006 - 2009 Member of the Department Board of the Department of Earth Sciences (DST)

- University**
- 2012 - 2014 Member of the Provisional Board of the DST.
 - 2012 - 2014 Member of the Provisional Faculty's Steering Committee.
 - 2012 - 2016 Member of the Departmental Evaluation Panel of the DST.
 - Since 2017 Member of the Department Board of the DST - active.
 - Since 2017 Member of the Laboratories and Structures Commission of the DST - active.
 - Since 2017 Member of the Space and Staff Commission of the DST - active.
 - Since 2017 Referent of the Departmental Building located at L. Cicognara 7 Milano – active.
 - Since 02/2019 Anti-corruption and transparency Referent for the teaching staff of the DST.
- Participation in International Committees**
- 2008 – Member of the Evaluation Panel of the PhD School at the University of Utrecht, The Netherlands.
 - 2005-2009 - Co-Supervisor of PhD at the GFZ (GeoForschungsZentrum) of Potsdam, Germany.
- PhD tutoring**
- 2019 - 2022 Arcangela Bollino - PhD in Earth Sciences, XXXV cycle, at the University of Milano.
 - 2013 - 2016 Alessandro Regorda - PhD in Earth Sciences, XXIX cycle, at the University of Milano.
 - 2008 - 2011 Manuel Roda - PhD in Earth Sciences, XXIII cycle, at the University of Milano
 - 2007 - 2010 Raffaele Splendore - PhD in Earth Sciences, XXI cycle, at the University of Milano
 - 2005- 2009 Mauro Cacace – PhD at the GFZ (GeoForschungsZentrum) of Potsdam, Germany.
- Scientific Responsibility of Research Grants**
- 2018 - 2020 Dr. Alessandro Regorda – Research Grant – Type A
 - 2015 - 2018 Dr. Manuel Roda - Research Grant – Type A - (2+2)
 - 2011 - 2014 Dr. Raffaele Splendore - Research Grant – Type A- (2+2)
 - 2007 - 2010 Dr. Raffaele Splendore - Research Grant - Type B
- Scientific Responsibility and participation to national and international research projects**
- 2018-2019 ESA project Gravitational Seismology ESA ITT AO/1-9101/17/I-NB. 12 months. Scientific Responsible of the work package “Tectonic deformation modelling”
 - 2007- 2010 ASI project SISMA: Seismic Information System for Monitoring and Alert - Scientific Responsible of the Research Unit (**RU**) *Geophysical Forward modeling*.
 - 2007-2009 ASI Pilot project: SISMA - Seismic Information System for Monitoring and Alert. 36 months. Scientific Responsible of the Research Unit *Geophysical Forward modeling*.
 - 2007 GOCE-ITALY: Gravity and steady state Ocean Circulation Explorer. 24 months. Participant to RU Unimi.
 - 2005-2009 DFG German Science Foundation - Research Program 2005-2009: "Dynamics of Sedimentary Systems Under Varying Stress Conditions by Example of The Central European Basin-System". 48 months. Foreign Partner – Italy.
 - 2005 PRIN 2005: Analisi della deformazione e dello sforzo nel Sistema di Bacini dell'Europa Centrale: integrazione fra modellizzazione numerica e dati geologici, geofisici e satellitari. 24 months. Project Coordinator.
 - 2004-2005 ESA-ALENIA Spazio project: Laser Doppler Interferometry Mission for the Determination of the Earth Gravity Field. 24 months. Co-Coordinator Solid Earth.
 - 2004 PRIN 2004: Integrazione della modellistica geofisica con tecniche spaziali GPS e DInSAR. 24 months. Participant RU Unimi.
 - 2004 ASI project: Feasibility Study on Seismic Hazard Management. 12 months. Participant RU Unimi.
 - 2002 PRIN 2002: Deformazione attiva al margine settentrionale dell'Adria: modellistica geofisica e determinazione della deformazione geodetica. 24 months. Participant RU Unimi.
 - 2000-2002 Programma Quadro Gruppo Nazionale per la Difesa dei Terremoti: "Determinazione dello stile di deformazione e del campo di sforzo in prossimità dell'Arco Calabro". 24 months. Scientific Responsible RU UNIMI.
 - 2000 GOCE-ITALY project: Working Group on Measurements and Methods of High Precision Space Geodesy. 12 months. Participant RU Unimi.
 - 2000 PRIN 2000: Modellistica Geofisica e analisi geodetica della deformazione attiva al margine settentrionale dell'Adria. 24 months. Participant RU Unimi.

Invited Talks

- 2019 A. M. Marotta. *Static and Dynamic effects of subduction on the Earth Gravitational field*. 105° Congresso Nazionale della Società Italiana di Fisica, L'Aquila, 23-27 Settembre 2019.
- 2019 A. M. Marotta. *Gravitational signatures of geodynamic processes at various time and space scales*. 3D Earth Science meeting, Dublino 12-14 March 2019
- 2012 A. M. Marotta. *Integrated use of numerical analysis, geological and geophysical data to give new insights on the Mechanisms acting at convergent margins: geodynamic modeling - from present to past*. PhD Earth Sciences School, Torino (Italy), November 12th-14th, 2012.
- 2006 A. M. Marotta. *Usò sinergico di modellistica numerica e dati geologici, geofisici e satellitari per l'analisi della deformazione intra-continentale*. XXV Convegno Nazionale Gruppo di Geofisica della Terra Solida, Roma.
- 2002 A. M. Marotta. *Combined effects of tectonics and glacial isostatic adjustment on the style of crustal deformation*. Bern (Svizzera) March 11-15 2002. Workshop of the international space institute (issi) on: "Earth gravity field from space - from sensors to Earth Sciences".
- 2002 A. M. Marotta. *The role of Tectonics and lateral heterogeneities on the present state of stress in Central Europe*. Schloss Eringerfeld Geseke-Eringerfeld (Germania) 28-29 November 2002. KOLLOQUIUM ZUM SCHWERPUNKTPROGRAM: "Dynamik Sedimentärer Systeme unter Wechselnden Spannungsregimen am Beispiel des Zentral Europäischen Becken System".

TEACHING ACTIVITY

Courses

Teaching assignments at the University of Milan

- FISICA DELL'INTERNO DELLA TERRA (Physics of the Earth Interior) - Fundamental Course (6 cfu) of the first year of the Master's Degree in Earth Sciences. Course holder (48/60 hours). Since a.a. 2003 - present.
- GEOFISICA DELLA TERRA SOLIDA (Geophysics of the Solid Earth) - Fundamental Course of the geophysical curriculum (6 CFU) IV year of the Master's Degree in Earth Sciences. Course holder (48 hours) Since a.a. 2000/2001 to a.a. 2001/2002.
- MODELLISTICA NUMERICA DI PROCESSI GEODINAMICI (Numerical Modeling of geodynamical processes) – Optional Course (6 CFU) I/II year of the Master's Degree in Earth Sciences. Course holder (48/60 hours). Since a.a. 2010 - present.
- LABORATORIO DI FISICA TERRESTRE (Laboratory of Physics of the Earth) – Mandatory Course (3 CFU) of the second year of the Bachelor's Degree in Geological Sciences. Course holder (36 hours) Since a.a. 2010/2011 to a.a. 2012/2013.
- FISICA TERRESTRE (Physics of the Earth) – Mandatory Course (6 CFU) of the second year of the Bachelor's Degree in Geological Sciences. Course holder. (48 hours) during the a.a. 2012/2013. Holder of 4CFU module (32 hours) during the a.a. 2017/2018.
- TECNICHE NUMERICHE PER LE SCIENZE DELLA TERRA (Numerical methods for the Earth Sciences) – Fundamental Corso of Master HypoGeo: "Idrodinamica nelle formazioni geologiche porose (Hydrodynamics in porous geological Structures)". Course holder (36 hours). a.a. 2000/20001.

Teaching assignments at other Universities

- GEOFISICA (Geophysics) - a.a. 2005/2006, 2009/2010, 2010/2011. Lecturer, 48 hours, Mandatory Course of the second year of Bachelors' Degree in Geology. University of Milano-Bicocca, Milano.
ESERCITAZIONI DI GEOFISICA (Exercises of Geophysics) - a.a. 2005/2006, 2009/2010, 2010/2011. Lecturer, 36 hours, Mandatory Course of the second year of Bachelors' Degree in Geology. University of Milano-Bicocca, Milano

Thesis advisor

- 2018/2019 Federica Restelli - Advisor, Master's Degree in *Earth Sciences*, University of Milano.
- 2015/2016 Federica Restelli - Advisor, Bachelor's Degree in *Geological Sciences*, University of Milano.
- 2015/2016 Alessia Tagliaferri - Advisor, Bachelor's Degree in *Geological Sciences*, University of Milano.
- 2011/2012 A. Regorda - Advisor, Master's Degree in *Earth Sciences*, University of Milano.
- 2011/2012 K. Conte – Co-Advisor, Master's Degree in *Earth Sciences*, University of Milano.
- 2010/2011 I. Borghesan - Advisor, Master's Degree in *Geology: Processes, Resources and Applications*, University of Milano.
- 2007/2008 - P. Sternai – Co-Advisor, Master's Degree in *Geology: Processes, Resources and Applications*, University of Milano.
- 2007/2008 C. M. Poggio – Co-Advisor, Master's Degree in *Physics*, University of Parma.
- 2006/2007 - C. M. Paleari – Co-Advisor, Degree in *Geology: Processes, Resources and Applications*, University of Milano.
- 2006/2007 D. D'Andria - Degree in *Physics*, University of Milano.
- 2005/2006 M. Meda - Advisor, Degree in *Geology: Processes, Resources and Applications*, University of Milano.
- 2003/2004 - L. G. M. Verderio - Co-Advisor, Degree in *Physics*, University of Milano.
- 2002/2003 - N. Tosi – Co-Advisor, Degree in *Physics*, University of Milano.
- 2002/2003 E. Spelta - Advisor, Degree in *Geology*, University of Milano.
- 2001/2002 C. Rizzetto - Advisor, Degree in *Geology*, University of Milano.
- 2001/2002 - A. Accerbi - Advisor, Degree in *Geology*, University of Milano.

Internship Tutor

- 2018/2019 - Stefano Galli – Bachelor's Degree in *Geological Sciences*, University of Milano.
- 2018/2019 - Nicole A. L. Sullivan - Bachelor's Degree in *Geological Sciences*, University of Milano.
- 2015/2016 Federica Restelli - Bachelor's Degree in *Geological Sciences*, University of Milano.
- 2015/2016 Alessia Tagliaferri - Bachelor's Degree in *Geological Sciences*, University of Milano.
- 2011/2012 - A. Vho - Bachelor's Degree in *Geological Sciences*, University of Milano.
- 2006/2007 - C. M. Poggio - Master's Degree in *Physics*, University of Parma.
- 2003/2004 - M. Mangialetti - Degree in *Geology*, University of Milano.

 ULTERIORI INFORMAZIONI

Publications

Papers on Peer Reviewed ISI Journals

1. Marotta A.M., Restelli F., Bollino A., Regorda A., Sabadini R., The static and time-dependent signature of ocean-continent and ocean-ocean subduction: the case studies of sumatra and mariana complexes", *Geophysical Journal International*, *submitted*.
2. Regorda A., Lardeaux J.-M., Roda M., Marotta A.M. and Spalla M.I., How many subductions in the Variscan orogeny? Insights from numerical models. *Geoscience Frontiers*, *under Review*.
3. Marotta A.M., Seitz K., Barzaghi R., Grombein T., Heck B., (2019). Comparison of two different approaches for computing the gravitational effect of a tesseroid. *Studia Geophysica et Geodaetica*, DOI: 10.1007/s11200-018-0454-2.
4. Roda M., Regorda A., Spalla M. I., Marotta A. M. (2018). What drives Alpine Tethys opening? Clues from the review of geological data and model predictions. *Geological journal*, ISSN: 0072-1050, doi: 10.1002/gj.3316.
5. Regorda A., Roda M., Marotta A.M., Spalla M.I. (2017). 2-D numerical study of hydrated wedge dynamics from subduction to post-collisional phases. *Geophysical Journal International*, vol. 211, p. 952-978, ISSN: 0956-540X, doi: 10.1093/gji/ggx336.
6. Marotta A. M., Barzaghi R. (2017). A new methodology to compute the gravitational contribution of a spherical tesseroid based on the analytical solution of a sector of a spherical zonal band. *Journal of Geodesy*, vol. 91, p. 1207-1224, ISSN: 0949-7714, doi: 10.1007/s00190-017-1018-x.
7. A.M. Marotta, M. Roda, K. Conte and M. I. Spalla (2016). Thermo-mechanical numerical model of the transition from continental rifting to oceanic spreading: the case study of the Alpine Tethys (2016). *Geological Magazine*, doi:10.1017/S0016756816000856.
8. R. Splendore, A. M. Marotta, and R. Barzaghi (2015). Tectonic deformation in the Tyrrhenian: A novel statistical approach to infer the role of the Calabrian Arc complex, *Journal of Geophysical Research, Solid Earth*, 120, doi: 10.1002/2015JB012313.
9. A. M. Marotta, R. Splendore and R. Barzaghi (2015) An Application of model uncertainty statistical assessment: a case study of tectonic deformation in the Mediterranean, *Journal of Geodynamics* doi: 10.1016/j.jog.2014.12.003.
10. A. M. Marotta and R. Splendore (2014). 3D mechanical structure of the lithosphere below the alps and the role of the gravitational body forces in the regional stress field. *Tectonophysics*, doi: 10.1016/j.tecto.2014.04.038.
11. M. I. Spalla, D. Zanoni, A. M. Marotta, G. Rebay, M. Roda, M. Zucali and G. Gosso (2014). The transition from variscan collision to continental break-up in the Alps: advices from the comparison between natural data and numerical model predictions". *SGL Special Publications: "The Variscan orogeny: extent, timescale and the formation of the european crust"*, doi: 10.1144/SP405.11.
12. R. Barzaghi, A. M. Marotta, R. Splendore, C. De Gaetani, A. Borghi (2014). Statistical assessment of a predictive modelling uncertainty: a geophysical case study. *Geophysical Journal International*, doi: 10.1093/gji/ggt510.
13. G. Cambiotti, S. Rigamonti, R. Splendore, A.M. Marotta and R. Sabadini, Power-law Maxwell rheologies and the interaction between tectonic and seismic deformations, *Geophys. J. Int.*, vol. 198, 1293-1306, doi:10.1093/gji/ggu163.
14. R. Splendore and A. M. Marotta (2013). Crust-mantle mechanical structure in the central Mediterranean region. *Tectonophysics*, 603, 89-103. Doi: 10.1016/j.tecto.2013.05.017.
15. G. F. Panza, A. Peresan, A. Magrin, F. Vaccari, R. Sabadini, B. S. Crippa, A. M. Marotta, R. Splendore, R. Barzaghi, A. Borghi, I. Cannizzaro, a. Amodio, s. Zoffoli (2013). The SISMA prototype system: integrating geophysical modeling and earth observation for time-dependent seismic hazard assessment. *Natural Hazards*, ISSN: 0921-030x, 69:1179–1198, doi: 10.1007/s11069-011-9981-7.
16. G. Neri, A. M. Marotta, B. Orecchio, D. Presti, C. Totaro, R. Barzaghi, A. Borghi (2012). How lithospheric subduction changes along the calabrian arc in southern italy: geophysical evidences. *Geophysical Journal International*, ISSN: 0956-540x, doi: 10.1007/s00531-012-0762-7.

17. M. Roda, M. I. Spalla and A. M. Marotta (2012). Integration of natural data within a numerical model of ablative subduction: a possible interpretation for the alpine dynamics of the austroalpine crust. *Journal of Metamorphic Geology*, ISSN: 0263-4929, doi: 10.1111/jmg.12000.
18. M. Roda, A. M. Marotta, M. I. Spalla (2011). The effects of the overriding plate thermal state on the slab dip in an ocean-continent subduction system. *Comptes Rendus. Géoscience*, vol. 343, p. 323-330, ISSN: 1631-0713, doi:10.1016/j.crte.2011.01.005.
19. M. Roda, A. M. Marotta, M. I. Spalla (2010). Numerical simulations of an ocean-continent convergent system: influence of subduction geometry and mantle wedge hydration on crustal recycling. *Geochemistry, Geophysics, Geosystems*, vol. 11, ISSN: 1525-2027, doi: 10.1029/2009gc003015.
20. M. I. Spalla, A. M. Marotta, G. Gosso (2010). Preface. In: *advances in interpretation of geological processes: refinement of multi-scale data and integration in numerical modelling*. P. VII-IXV, SGL Special Publication, ISBN:978-1-86239-295-3.
21. M. I. Spalla, G. Gosso, A. M. Marotta, M. Zucali, F. Salvi (2010). Analysis of natural tectonic systems coupled with numerical modelling of the polycyclic continental lithosphere of the alps. *International Geology Review*, vol. 52, p.1268-1302, ISSN: 0020-6814, doi: 10.1080/00206814.2010.482737.
22. M. Meda, A. M. Marotta, M. I. Spalla (2010). The role of mantle hydration in continental crust recycling in the wedge region. In: *advances in interpretation of geological processes: refinement of multi-scale data and integration in numerical modelling*. P. 149-172, SGL Special Publication, ISBN: 9781862392953, doi: 10.1144/sp332.10.
23. R. Splendore, A. M. Marotta, R. Barzaghi, A. Borghi, I. Cannizzaro (2010). Block model versus thermomechanical model: new insights on the present-day regional deformation in the surroundings of the calabrian arc. In: *advances in interpretation of geological processes: refinement of multi-scale data and integration in numerical modelling*. P. 129-147, SGL Special Publication, ISBN: 9781862392953, doi: 10.1144/sp332.9.
24. M. Cacace, U. Bayer, A. M. Marotta (2009). Late cretaceous-early tertiary tectonic evolution of the central European basin system (cebs): constraints from numerical modelling. *Tectonophysics*, vol. 470, p. 105-128, ISSN: 0040-1951, doi: 10.1016/j.tecto.2008.08.020.
25. R. Sabadini, A. Aoudia, R. Barzaghi, B. Crippa, A. M. Marotta, A. Borghi, I. Cannizzaro, I. Calcagni, G. Dalla Via, G. Rossi, R. Splendore, M. Crosetto (2009). First evidences of fast creeping on a long-lasting quiescent earthquake normal-fault in the mediterranean. *Geophysical Journal International*, vol. 179, p. 720-732, ISSN: 0956-540x, doi: 10.1111/j.1365-246x.2009.04312.x.
26. A. M. Marotta, M. I. Spalla, G.G.M. Gosso (2009). Upper and lower crustal evolution during lithospheric extension: numerical modelling and natural footprints from the european alps. In: *extending a continent: architecture, rheology and heat budget*. P. 33-72, SGL Special Publication, ISBN: 9781862392847, doi: 10.1144/sp321.3.
27. A. M. Marotta, R. Sabadini (2008). Africa- Eurasia kinematics control of long wavelength tectonic deformation in the central mediterranean. *Geophysical Journal International*, ISSN: 0956-540x, doi: 10.1111/j.1365-246x.2008.03906.x.
28. M. Cacace, U. Bayer, A. M. Marotta (2008). Strain localization due to structural in-homogeneities in the central european basin system. *International Journal of Earth Sciences*, vol. 97, p. 899-913, ISSN: 1437-3254, doi: 10.1007/s00531-007-0192-0.
29. M. Cacace, U. Bayer, A. M. Marotta, C. Lempp (2008). Driving mechanisms for basin formation and evolution. In: R. Littke; U. Bayer; D. Gajewski, Ed. "Dynamics of complex intracontinental basins: the Central European Basin System". Springer, ISBN: 978-3-540-85084-7, doi: 10.1007/978-3-540-85085-4_3.
30. A. M. Marotta, M. I. Spalla (2007). Permian-triassic high thermal regime in the alps : result of late variscan collapse or continental rifting? Validation by numerical modeling. *Tectonics*, vol. 26, p. Tc4016-1-tc4016-27, ISSN: 0278-7407, doi: 10.1029/2006tc002047.
31. A. M. Marotta, R. Barzaghi, A. Borghi, E. Spelta (2007). Gravity constraints on the dynamics of the crust mantle system during calabrian subduction. *Geophysical Journal International*, vol. 171, p. 977-985, ISSN: 0956-540x, doi: 10.1111/j.1365-246x.2007.03599.x.
32. M. I. Spalla, A. M. Marotta (2007). P-t evolution vs numerical modelling: a key to unravel the

- paleozoic to early Mesozoic tectonic evolution of the alpine area. *Periodico di Mineralogia*, vol. 76, p. 267-308, ISSN: 0369-8963, doi: 10.2451/2007pm0029.
33. C. M. Paleari, B. S. Crippa, A. M. Marotta, U. Bayer (2007). Application of the differential interferometric technique (dinsar) to unvel the present-day vertical movement in the gluckstadt graben, germany. *Esa Special Publication*, ISSN: 0379-6566.
 34. A. M. Marotta, E. Spelta, C. Rizzeto (2006). Gravity signature of crustal subduction inferred from numerical modelling. *Geophysical Journal International*, vol. 166, p. 923-938, ISSN: 0956-540x, doi: 10.1111/j.1365-246x.2006.03058.x.
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Milano, 02 October 2019

Anna Maria Marotta

