

PERSONAL INFORMATION

Davide Zanoni

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WORK EXPERIENCE

May 2012–Present

Researcher

Dipartimento di Scienze della Terra "A. Desio", Università di Milano, Milano (Italy)

Research topics:

- Meso-structural analysis of crystalline complexes applied to the reconstruction of relative timing of structures, focused on the geodynamics of collisional belts
- Multiscale structural analysis of igneous complexes devoted to the reconstruction of emplacement mechanisms and geodynamic scenario
- Micro-structural analyses of crystalline rocks and mineral growth - deformation relationships
- Mineral composition analyses as a function of the microstructural evolution
- P-T-d-t path reconstruction applied to the characterisation of tectono-metamorphic units

Teaching commitments:

- Since 2013: Introduction to Geology (1st year: B.Sc.): classes, practical exercises in topography and stratigraphy, and field school
- 2014 - 2018: Regional Geology (M.Sc.): classes and field schools and excursions
- 2012 – 2014: Geological mapping (1st year: B.Sc.): field school
- 2013: Geodynamics Laboratory (M.Sc.): field schools and excursions
- 2012: Crystalline Geology Laboratory (M.Sc.): microstructural analysis of metamorphic and igneous rocks

Departmental commitments:

- June 2017: Polling station supervisor for the election of the Department Chair and Director of B.Sc./M.Sc. studies.
- Since 2016: Organisation of the annual 3-day departmental conference and PhD thesis defences.
- Since 2014: Organisation of schedule plan for M.Sc. classes.
- 2014 - 2017: Member of the committee for the Erasmus exchange student program.

University commitments:

- November 2015 – February 2016: Member of the evaluating committee of fellows' ranking for awarding subsidy.

Business or sector Structural Geology

Feb 2011–Apr 2012

Post-Doctoral Fellow

Dipartimento di Scienze della Terra e dell'Ambiente, Università di Pavia, Pavia (Italy)

Reconstruction of the deformational and metamorphic history in rodingitic gabbro dykes of the HP Zermatt-Saas Zone ophiolite (Western Alps), deformed during the Alpine subduction.

Business or sector Structural and Metamorphic Geology

Apr 2007–Jun 2010

Post-Doctoral Fellow

Department of Geology, University of New Brunswick, Fredericton (Canada)

Detailed structural mapping and laboratory analyses to reconstruct PTdt paths of the HT Thor-Odin dome, Shuswap complex of the Southern Canadian Cordillera.

Business or sector Structural Geology

Jan 2003–Oct 2003

Annual Research Contract

Dipartimento di Scienze della Terra "A. Desio", Università di Milano, Milano (Italy)

Reconstruction of tectonic units in the Variscan and Alpine crust of the Alps and recognition of the thinning- and collapse-related structures of the chain

Business or sector Structural Geology

Sep 2002–Dec 2002

Planner and site geologist

VALLI S.p.A., Lonato (BS) (Italy)

preparation of preliminary projects of decontamination for former industrial areas;
decontamination of hydrocarbon-polluted sites; gas-chromatographic analysis on polluted ground samples;
inspections and coordination with public local administrations on polluted sites.

Business or sector Environmental Geology

EDUCATION AND TRAINING

Oct 2003–Jan 2007

Ph.D. in Structural Geology

Dipartimento di Scienze della Terra "A. Desio", Univesrità di Milano, Milano (Italy)

Reconstruction of the structural and metamorphic evolution in the contact aureole of the shallow depth Oligocene plutons intruded in the HP continental crust of the Sesia Lanzo Zone, to constrain timing and thermal conditions of the final exhumation history of the Internal Western Alps.

- Structural mapping and analysis
- GIS data base
- Microstructural analysis
- Mineral chemical analysis
- PT estimates
- Teaching assistantship: Organisation of mapping field schools; Regional Geology and Geodynamics field excursions; Microstructures of tectonites for third year undergraduate students; Microstructural analyses; Seminars and short classes for graduate students; Dissemination of geosciences for high school students.

Oct 1994–Jun 2002

M.Sc. in Geology

Dipartimento di Scienze della Terra "A. Desio", Università di Milano, Milano (Italy)

Reconstruction of the metamorphic evolution in clasts enclosed in Lower Permian conglomerates of the Central Southern Alps (Italy), applying the analytical methods (metamorphism-deformation relationships, mineral composition analyses) commonly used for present day crystalline basements.

PERSONAL SKILLS

Mother tongue(s)

Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	A1	A2	A1	A1	
German	A1		A1		

Spanish A2 A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills good communication skills gained through my experience at conference meeting, classes, and team working

Organisational / managerial skills Skills acquired during: Research, Teaching, and Funding managing

- Job-related skills**
- Structural analysis and mapping; Mineral chemistry; PT estimates; Scientific paper writing and revision; Scientific data presentation and discussion
 - Teaching geology-based courses at BSc and MSc level.
 - Supervising thesis projects at BSc, MSc, and PhD level.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Independent user	Independent user	Basic user	Basic user	Independent user

Digital skills - Self-assessment grid

Operative systems: Windows, MAC-OS
Computer programs: Adobe, Office, Qgis, ArcGis

ADDITIONAL INFORMATION

Funding

Funding Management:

- 2018: Giovani ricercatori (Young researchers) – Linea 2. Milan University PSR2018_DZANONI (5863.64 €)
- 2018: Mineral Abbau GmbH (17950.40 €)
- 2018: Fondi per il funzionamento delle attività di ricerca di base FFABR2018DZANONI (3000 €)
- 2018: Giovani ricercatori (Young researchers) – Linea 2. Milan University PSR2017-DZANONI (5727,28 €)
- 2017: Field srl (196.26 €)
- 2017: Giovani ricercatori (Young researchers) – Linea 2. Milan University PSR2015-1716DZANO_M (6000 €)
- 2017: “Parco Europeo Alpi Marittime-Mercantour”, “Gruppo Europeo di Cooperazione Territoriale” for the candidature of Maritime Alps to UNESCO World Heritage (9836.06 €)
- 2016: Università di Camerino (390.40 €)
- 2015: Università di Camerino (1391.88 €)
- 2015: Studio Georisk (3019.72 €)
- 2015: Giovani ricercatori (Young researchers) – Linea 2. Milan University (8750 €)
- 2014: Giovani ricercatori (Young researchers) – Linea B. Milan University (4000 €)

Member of funded projects:

- PRIN 2012: “Rift-to-Drift Transition in the Red Sea”. Italian government research funding. Camerino University.
- 2011: part of the FAR project of Pavia University.
- PRIN 2010: “Birth and death of oceanic basins: geodynamic processes from rifting to continental

collision in Mediterranean and circum-Mediterranean orogens". Italian government research funding. Milan University.

- PRIN 2008: "Reconstruction of tectonic trajectories of the subducted lithosphere in the Alpine belt, as inferred by structure, metamorphism and lithostratigraphy". Italian government research funding. Milan University.
- PRIN 2005: "Structural imprint of convergent and divergent tectonics of the crustal infrastructure of the Central Western Alps". Italian government research funding. Milan University.
- 2003-2007: part of the FIRST-PUR projects of Milan University.
- PRIN 2001: "Subduction, collision and exhumation structures and mechanisms in the intermediate and deep crust of Central Western Alps". Italian government research funding. Milan University.
- **Castelli D., Gosso G., Rossetti P., Spalla M.I., Zanoni D. & Zucali M.** (2007): Guide-book to the DRT 2007 Workshop Field Excursion on the subducted continental crust of the Sesia-Lanzo Zone (Monte Camino – Monte Mucrone; Oropa – Biella, Western Italian Alps). In: 16th DRT Conference.

Geological field excursion organisation

Publications

ISI or peer reviewed scientific publications

Papers:

- **Schettino A., Ranalli G., Fierro E., Pierantoni P.P., Zanoni D., Turco E. & Rasul N.** (2019): Rift-drift transition in the Red Sea: A rheological model of the early stage of sea floor spreading. *Geophysical Journal International*, ggz123, <https://doi.org/10.1093/gji/ggz123>. (Online ISSN 1365-246X, Print ISSN 0956-540X).
- **Zanoni D., Rasul N.M.A., Langone A. & Khorshid M.** (2019): Chapter 20 - Microstructure and geochemistry of magmatic dykes from the Arabian margin, Red Sea. In: Rasul N.M.A. & Stewart I.C.F. (Eds.) - Geological Setting, Palaeoenvironment and Archaeology of the Red Sea, pp 437-471, Earth System Science Series, Springer DOI: 10.1007/978-3-319-99408-6_20 (ISBN 978-3-319-99407-9).
- **Zanoni D. & Spalla M.I.** (2018): The Variscan evolution in basement cobbles of the Permian Ponteranica Formation by microstructural and petrologic analysis. *Italian Journal of Geosciences*, 137, 254-271 doi.org/10.3301/IJG.2018.12. (ISSN:2038-1719 E-ISSN:2038-1727).
- **Corti L.*, Alberelli G.*, Zanoni D. & Zucali M.** (2018): Tectonometamorphic evolution of the Lago della Vecchia metaintrusive and its country rocks, Sesia-Lanzo Zone, Western Alps. *Italian Journal of Geosciences*, 137, 188-207 doi.org/10.3301/IJG.2018.08. (ISSN:2038-1719 E-ISSN:2038-1727).
- **Luoni P.*, Rebay G., Spalla M.I. & Zanoni D.** (2018): UHP Ti-chondrodite in the Zermatt-Saas serpentinite: Constraints on a new tectonic scenario. *American Mineralogist – Letters*, 103, 1002-1005. DOI: 10.2138/am-2018-6460 (ISSN on line: 1945-3027).
- **Corti L.*, Alberelli G.*, Zanoni D. & Zucali M.** (2017): Analysis of fabric evolution and metamorphic reaction progress at Lago della Vecchia-Valle d'Irogn, Sesia-Lanzo Zone, Western Alps. *Journal of Maps*, 13, (2) 521-533, [doi: 10.1080/17445647.2017.1331177](https://doi.org/10.1080/17445647.2017.1331177). (ISSN on line: 1744-5647).
- **Rebay G., Zanoni D., Langone A., Luoni P.*, Tiepolo M. & Spalla M.I.** (2017): Dating of ultramafic rocks from the Western Alps ophiolites discloses Late Cretaceous subduction ages in the Zermatt-Saas Zone. *Geological Magazine*, [doi:10.1017/S0016756817000334](https://doi.org/10.1017/S0016756817000334). ISSN: 0016-7568 (Print), 1469-5081 (Online) Hard copy 2018, 155(2), 298-315.
- **Zanoni D., Rebay G. & Spalla M.I.** (2016): Ocean floor and subduction record in the Zermatt-Saas rodingites, Valtouranche, Western Alps. *Journal of Metamorphic Geology*, 34 (9), 941-961. DOI: 10.1111/jmg.12215. (Online ISSN: 1525-1314).
- **Schettino A., Macchiavelli C., Pierantoni P.P., Zanoni D. & Rasul N.** (2016): Recent kinematics of the tectonic plates surrounding the Red Sea and Gulf of Aden. *Geophysical Journal International*, 207, 457-480 DOI:10.1093/gji/ggw280. Online ISSN 1365-246X - Print ISSN 0956-540X.
- **Cantù M., Spaggiari L., Zucali M., Zanoni D. & Spalla M.I.** (2016): Structural analysis of a subduction-related contact in southern Sesia-Lanzo Zone (Austroalpine Domain, Italian Western Alps). *Journal of Maps*, 12 (Sup. 1), 22-35. DOI:10.1080/17445647.2016. (ISSN on line: 1744-5647).
- **Gosso G., Rebay G., Roda M., Spalla M.I., Tarallo M., Zanoni D. & Zucali M.** (2015): Taking advantage of petrostructural heterogeneities in subduction-collisional orogens, and effects on the scale of analysis. *Periodico di Mineralogia*, 84, 3B (Special Issue), 779-825. DOI: 10.2451/2015PM0452. (ISSN PRINT: 0369-8963, ISSN ONLINE: 2239-1002).
- **Zanoni D.** (2015): Structure and petrography of the southwestern margin of the Biella pluton, Western Alps. *Journal of Maps*. DOI: 10.1080/17445647.2015.1056259. *Electronic print 2016*, 12 (3),

597-620. (Online ISSN: 1744-5647).

- **Zanoni D., Kuiper Y.D. & Williams P.F.** (2014): Pre- to post-Cordilleran transposition history of Joss Mountain: Insights into the exhumation of the Shuswap complex, southeastern Canadian Cordillera. *Lithosphere*, 6(6), 419-442. DOI: 10.1130/L346.1. (Print ISSN: 1941-8264 Online ISSN: 1947-4253).
- **Spalla M.I., Zanoni D., Marotta A.M., Rebay G., Roda M., Zucali M. & Gosso G.** (2014): The transition from Variscan collision to continental break-up in the Alps: insights from the comparison between natural data and numerical model predictions. *Geological Society, London, Special Publications*, 405(1), 363-400, DOI: 10.1144/SP405.11. (Print ISSN 0305-8719, Online ISSN 2041-4927).
- **Zanoni D., Rebay G., Bernardoni J. & Spalla M.I.** (2012): Using multiscale structural analysis to infer high-/ultrahigh-pressure assemblages in subducted rodingites of the Zermatt-Saas Zone at Valtourmanche, Italy. *Journal of the Virtual explorer*. 41, paper 6, doi: 10.3809/jvirtex.2011.00290. (Electronic ISSN: 1441-8142).
- **Baletti L., Zanoni D., Spalla M.I. & Gosso G.** (2012): Structural and petrographic map of the Sassa gabbro complex, Dent Blanche nappe, Austroalpine tectonic system, Western Alps, Italy; 1:2,500 scale. *Journal of Maps*. 8(4), 413-430. DOI: 10.1080/17445647.2012.745678. (ISSN on line: 1744-5647).
- **Rebay G., Spalla M.I. & Zanoni D.** (2012): Interaction of deformation and metamorphism during subduction and exhumation of hydrated oceanic mantle: Insights from the Western Alps. *Journal of Metamorphic Geology*. 30 (7), 687-702. DOI: 10.1111/j.1525-1314.2012.00990.x. (Online ISSN: 1525-1314).
- **Spalla M.I., Zanoni D., Williams P.F. & Gosso G.** (2011): Deciphering cryptic P-T-d-t histories in the western Thor-Odin dome, Monashee Mountains, Canadian Cordillera: a key to unravelling pre-Cordilleran tectonic signatures. *Journal of Structural Geology*. 33, 399-421. DOI: 10.1016/j.jsg.2010.11.014. (ISSN: 0191-8141).
- **Zanoni D., Spalla M.I. & Gosso G.** (2010): Structure and PT-estimates across late-collisional plutons: constraints on the exhumation of Western Alpine continental HP units. *International Geology Review*, 52(10-12), 1244-1267. DOI: 10.1080/00206814.2010.482357. (ISSN: 0020-6814).
- **Zanoni D.** (2010): Structural and petrographic analysis of the north-eastern margin of the Oligocene Traversella pluton (Internal Western Alps). *Bollettino della Società Geologica Italiana (Italian Journal of Geosciences)*. 129 (1), 51-68. (ISSN online: 2038-1727; ISSN printed 2038-1719).
- **Zanoni D., Spalla M.I. & Gosso G.** (2009): Vestiges of lost tectonic units in conglomerate pebbles? A test in Permian sequences of the Southalpine Orobic Alps. *Geological Magazine*; DOI:10.1017/S0016756809990252. *Hard copy published in 2010*. 147, 98-122. (ISSN: 0016-7568).
- **Zanoni D., Bado L.*, Spalla M.I., Zucali M. & Gosso G.** (2008): Structural analysis of the Northeastern margin of the Tertiary intrusive stock of Biella (Western Alps, Italy). *Bollettino della Società Geologica Italiana (Italian Journal of Geosciences)*. 127 (1), 125-140. (ISSN: 2038-1700).
- **Spalla M.I., Zanoni D., Gosso G. & Zucali M.** (2007): Deciphering the geologic memory of a Permian conglomerate of the Southern Alps by pebble P-T estimates. *International Journal of Earth Sciences*. DOI 10.1007/s00531-007-0241-8. *Hard copy published in 2009*. 98, 203-226. (ISSN printed version: 1437-3254; ISSN electronic version: 1437-3262).

Geological Maps:

- **Corti L.*, Alberelli G.*, Zanoni D. & Zucali M.** (2017): A petrostructural map of the Lago della Vecchia – Valle d'Irona area (Sesia-Lanzo Zone, Western Alps); 1:10,000 scale. *Journal of Maps*. Doi: 10.1080/17445647.2017.1331177 (ISSN on line: 1744-5647).
- **Cantù M., Spaggiari L., Zucali M., Zanoni D. & Spalla M.I.** (2016): Structural map of a subduction-related contact in southern Sesia-Lanzo Zone (Italian Western Alps); 1:10,000 scale. *Journal of Maps*. DOI:10.1080/17445647.2016. (ISSN on line: 1744-5647).
- **Zanoni D.** (2015): Structural and petrographic map of the southwestern margin of the Biella pluton, Western Alps; 1:10,000 scale. *Journal of Maps*. DOI: 10.1080/17445647.2015.1056259. (ISSN on line: 1744-5647).
- **Baletti L., Zanoni D., Spalla M.I. & Gosso G.** (2012): Structural and petrographic map of the Sassa gabbro complex, Dent Blanche nappe, Austroalpine tectonic system, Western Alps, Italy; 1:2,500 scale. *Journal of Maps*. 8(4), 413-430. DOI: 10.1080/17445647.2012.745678. (ISSN on line: 1744-5647).
- **Zanoni D.** (2010): Structural and petrographic map of the north-eastern margin of the Oligocene

Traversella pluton (Internal Western Alps); 1:5,000 scale. *Bollettino della Società Geologica Italiana (Italian Journal of Geosciences)*. 129 (1). (ISSN online: 2038-1727; ISSN printed 2038-1719).

· **Zanoni D., Bado L.* & Spalla M.I.** (2008): Structural and petrographic map of the Northeastern margin of the Tertiary intrusive stock of Biella (Western Alps, Italy); 1:10,000 scale. *Bollettino della Società Geologica Italiana (Italian Journal of Geosciences)*. 127 (1). (ISSN: 2038-1700).

Non-ISI scientific publications and short notes

· **Zanoni D. & Roda M.** (2016): The thermal state of Biella pluton country rock as a tool to unravel the late orogenic tectonics of the Western Alps. Gruppo Nazionale di Geofisica della Terra Solida, 1.2, 240-244. *GNGTS 2016, Lecce, Italy*.

· **Zanoni D., Gosso G., Kuiper Y.D., Spalla M.I. & Williams P.F.** (2013): Evidence for contrasting tectonic trajectories in adjacent domains in the Shuswap complex, southeastern Canadian Cordillera. *Rendiconti online della Società Geologica Italiana*, 29, 198-201. (ISSN: 2035-8008). *G/IGS 2013 Milano, Italy*.

· **Raffaele Addamo D.*, Zanoni D., Spalla M.I., & Rebay G.** (2013): Pre-Cordilleran transposition signatures in felsic and intermediate composition boudins of the Thor-Odin dome, southeastern Canadian Cordillera. *Rendiconti online della Società Geologica Italiana*, 29, 138-141. (ISSN: 2035-8008). *G/IGS 2013 Milano, Italy*.

· **Rebay G., Spalla M.I. & Zanoni D.** (2012): Multi-scale structural analysis of the serpentinites of the upper Valtouranche. *Rendiconti online della Società Geologica Italiana*, 22, 197-200 (ISSN: 2035-8008). *G/IGS 2012, Modena, Italy*.

· **Zanoni D. & Spalla M.I.** (2012): Permian thinning of the Southalpine Variscan crust: insights by metamorphic pebbles and cobbles from post-orogenic conglomerates. *Géologie de la France*, 1, 219-221 (ISSN: 0246-874). *Variscan 2012, meeting organised by the French and Italian geological societies, Sassari, Italy*.

· **Spalla M.I., Marotta A.M., Rebay G., Zanoni D. & Zucali M.** (2012): The transition from Variscan collision to continental break up in the Alps: advices from the comparison between natural data and numerical model predictions. *Géologie de la France*, 1, 202-203 (ISSN: 0246-874). *Variscan 2012, meeting organised by the French and Italian geological societies, Sassari, Italy*.

· **Zanoni D. & Williams P.F.** (2011): Deformational and metamorphic history at Joss Mountain, Shuswap complex, southern Canadian Cordillera. *Rendiconti online della Società Geologica Italiana*, 15, 129-132 (ISSN: 2035-8008). *G/IGS 2011, Cagliari, Italy*.

· **Zanoni D., Rebay G., Spalla M.I. & Bernardoni J.** (2011): Eclogitised rodingites of the Zermatt-Saas Zone: unravelling their evolution through deformation-metamorphism relationships. *Rendiconti online della Società Geologica Italiana*, 15, 125-128 (ISSN: 2035-8008). *G/IGS 2011, Cagliari, Italy*.

· **Spalla M.I., Gosso G., Siletto G.B. & Zanoni D.** (2010): L'evoluzione tettonica del Basamento Sudalpino Orobico dalla convergenza Varisica a quella Alpina. In: Orombelli G., Cassinis G., Gaetani M.; Una nuova geologia per la Lombardia, Special Volume in honour of M.B. Cita, 17-37.

· **Spalla M.I., Zanoni D., Williams P.F. & Gosso G.** (2009): P-T evolution in the western Thor-Odin dome, Monashee Mountains, Canadian Cordillera. *Rendiconti online della Società Geologica Italiana*, 5, 210-213 (ISSN: 2035-8008). *G/IGS 2009, Udine, Italy*.

· **Zanoni D., Spalla M.I., Gosso G. & Zucali M.** (2008): Plutoni tardo-collisionali nella crosta profonda esumata della Zona Sesia Lanzo: implicazioni per la geodinamica delle Alpi Occidentali Interne. *Rendiconti della Società Geologica Italiana*, 6, 1-3, 199-202 (ISSN: 0392-3037). *G/IGS 2008, Catania, Italy*.

· **Zanoni D., Spalla M.I., Gosso G. & Zucali M.** (2007): Emplacement of late-collisional plutons in exhumed deep crustal slices: the case of the Sesia Lanzo Zone (Internal Western Alps). *Rendiconti della Società Geologica Italiana*, 5 (1), 228-230 (ISSN: 0392-3037). *DRT2007, Milano, Italy*.

· **Zanoni D.** (2007): Messa in posto di plutoni tardo collisionali in unità continentali profonde esumate. L'esempio della Zona Sesia-Lanzo (Alpi Occidentali interne). PhD Thesis. Università di Milano, Dipartimento di Scienze della Terra «A. Desio», 320 pp.

· **Castelli D., Gosso G., Rossetti P., Spalla M.I., Zanoni D. & Zucali M.** (2007): Guide-book to the DRT 2007 Workshop Field Excursion on the subducted continental crust of the Sesia-Lanzo Zone (Monte Camino-Monte Mucrone; Oropa-Biella, Western Italian Alps). *Quaderni di Geodinamica Alpina e Quaternaria*, 9, 35-70. (ISBN 978-88-86596-10-7).

· **Zanoni D., Spalla M.I., Spreafico E., Zucali M. & Gosso G.** (2007): P-T path reconstructions in pebbles from Permian conglomerates of Southern Alps: a key to unravel the geodynamic evolution. *Rendiconti della Società Geologica Italiana*, 4 Nuova Serie 323-325. (ISSN 0392-

3037). *GIGS 2007, Urbino, Italy.*

· **Zanoni D., Bado L.*, Spalla M.I., Zucali M. & Gosso G.** (2006): Structural and metamorphic pre- syn- and post-intrusive evolution in the country rock of Biella and Traversella intrusive stocks. *Rendiconti della Società Geologica Italiana, 2 Nuova Serie, 196-198.* (ISSN 0392-3037). *GIGS 2006, Chieti, Italy.*

Editorial activity

· **Fazio E., Fiannacca P., Ortolano G., Punturo R., Zanoni D. & Zucali M.** (2015): Progresses in deciphering structures and compositions of basement rocks. *Periodico di Mineralogia, Special Issue, Vol 84, 3B.* (ISSN PRINT: 0369-8963, ISSN ONLINE: 2239-1002).

· **Zucali M., Fontana E., Zanoni D., Spalla M.I., Rebay G., Tartarotti P. & Gosso G.** (2013): Note brevi e riassunti della Riunione Annuale del Gruppo di Geologia Strutturale. *Rendiconti Online della Società Geologica Italiana, Milano 28 – 30 October 2013. Volume 29.* ISSN 2035-8008.

Conference abstracts

· **Spalla M.I., Rebay G., Roda M., Zanoni D., Zucali M., Lardeaux J.-M., Gosso G.** (2018): Variscan metamorphic relics in the Alps: differences and similarities from the Helvetic to the Southalpine domains. In: 26^e édition de la Réunion des Sciences de la Terre, October 22-26, Lille, France.

· **Filippi M.*, Gosso G., Lardeaux J.-M., Spalla M.I., Verati C. & Zanoni D.** (2018): Late- to Post-Variscan mafic magmatism in the External Crystalline massif of western Alps: the dioritic dyke swarm of the Argentera-Mercantour massif. In: 26^e édition de la Réunion des Sciences de la Terre, October 22-26, Lille, France.

· **Jouffray F., Spalla M.I., Lardeaux J.-M., Zanoni D., Corsini M., Rebay G., Zucali M., Corti L.**, Filippi M.**, Luoni P.**, Volante S.*, Spaggiari L.*, Schneider J. & Gosso G.** (2018): Eclogites varisques et roches associées du Massif de l'Argentera-Mercantour (Alpes sud-occidentales): Marqueurs d'une paléo-suture varisque démembrée. In: 26^e édition de la Réunion des Sciences de la Terre, October 22-26, Lille, France.

· **Corti L.**, Zucali M., Delleani F., Zanoni D. & Spalla M.I.** (2018): 3D modelling of fabric domains in the eclogitised continental crust of the Mt. Mucrone area, Sesia-Lanzo Zone, Western Alps. In: SGI – SIMP September 12-14, Catania, Italy.

· **Luoni P.*, Zanoni D., Rebay G. & Spalla M.I.** (2018): Structural mapping of UHP serpentinites at Créton, upper Valtourne valley, Zermatt-Saas Zone. In: SGI – SIMP September 12-14, Catania, Italy.

· **Zanoni D., Roda M. & Spalla M.I.** (2018): Permian geodynamics of the central Southalpine by tectono-thermal record in post-Variscan conglomerates. In: SGI – SIMP September 12-14, Catania, Italy.

· **Gusmeo T.*, Spalla M.I., Tartarotti P., Zanoni D. & Gosso G.** (2018): Structural-geological survey of an eclogitized chaotic complex: The Riffelberg-Garten unit in the Breuil dell (Zermatt-Saas Zone, Italian Western Alps). In: SGI – SIMP September 12-14, Catania, Italy.

· **Filippi M.*, Gosso G., Lardeaux J.-M., Spalla M.I., Verati C. & Zanoni D.** (2018): From Variscan to Alpine tectonics: magmatic and metamorphic evolution of the Argentera dioritic dyke swarm, External Crystalline Massifs, Western Alps. In: SGI – SIMP September 12-14, Catania, Italy.

· **Corti L.**, Visalli R., Ortolano G., Zucali M. & Zanoni D.** (2018): Quantitative analysis of metamorphic reaction progress along strain gradients in granitoid and basic rocks from Lago della Vecchia, Sesia-Lanzo Zone, Western Alps. In: SGI – SIMP September 12-14, Catania, Italy.

· **Zanoni D., Roda M. & Spalla M.I.** (2018): An east-west transect across the central Southalpine: insights into Variscan geodynamics. In: Thermal and mechanical evolution of collisional and accretionary orogens - conference in Honour of Karel Schulmann's 60th Birthday, August 31 – September 2, Prague.

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*supervised M.Sc. student; **supervised Ph.D. student

Thesis supervision

Ph.D. students:

- Marco Filippi (co-supervisor): Structural and metamorphic evolution of Variscan rocks from the Alps and comparison with the evolution of tectonic units from different portions of central-European Variscan belt. (Government funded) Graduation expected within Winter 2021.
- Luca Corti (co-supervisor): Relationships between fabric evolution and metamorphic reaction progress to map the dominant fabric in subducted continental crust units (Government funded). Graduation expected within Winter 2020.
- Pietro Luoni (supervisor): Structural and metamorphic signatures of the tectonic evolution of mafic and ultramafic rocks in collisional belts (Private donor founded). Graduation expected within Winter 2020.

M.Sc. students:

- Thomas Gusmeo (co-supervisor): Structural analysis of Zermatt-Saas ophiolites, upper Valtournanche Western Alps, Italy. *Completed in April 2018*. University of Milan.
- Luigi Cinquegrani (supervisor): Magmatic and deformational evolution of basaltic dykes from the Argentera Massif, Italy and France. *Completed in April 2018*. University of Milan.
- Erika Sturaro (co-supervisor): Structural and metamorphic evolution of ophiolites, from upper Valtournanche, Italy. *Completed in April 2018*. University of Milan.
- Marta Z. Bonzani (supervisor): Multiscale structural analysis of the ophiolite rocks of the Combin unit, upper Valtournanche. (translated title). *Completed in February 2018*. University of Milan.
- Marco Filippi (supervisor): Structural and petrologic study of mafic dykes at Valscura (Argentera Massif – Western Alps) (translated title). *Completed in October 2017*. University of Milan.
- Tessa Donigaglia (supervisor): Reconstruction of the late orogenic tectonics of the Western Alps deduced by the crustal level of intrusion of the Biella pluton (translated title). *Completed in April 2017*. University of Milan.
- Gioele Alberelli (co-supervisor): Geological mapping and multiscale structural analysis of country-rocks of Lago della Vecchia intrusives, Sesia-Lanzo Zone, Western Alps, Italy. *Completed in April 2016*. University of Milan.
- Luca Corti (supervisor): Geological mapping and multiscale structural analysis of meta-intrusives, alta Valle del Cervo, Sesia-Lanzo Zone, Western Alps. *Completed in April 2016*. University of Milan.
- Pietro Luoni (co-supervisor): Multiscale structural analysis dehydrated serpentinite of the Zermatt-Saas Zone, Italy (translated title). *Completed in April 2016*. University of Milan.
- Silvia Volante (supervisor): Structural and lithostratigraphic analysis of the Argentera complex and microstructural analysis of calcsilicate boudins, External Variscan massifs, Maritime Alps, Italy (translated title). *Completed in October 2015*, University of Milan.
- Luca Spaggiari (supervisor): Structural and lithostratigraphic analysis of the Argentera complex and microstructural analysis of ultramafic boudins, External Variscan massifs, Maritime Alps, Italy (translated title). *Completed in February 2015*, University of Milan.
- Davide Raffaele Addamo (supervisor): Micro-structural analysis of acidic boudins from the western and southern margin of Thor-Odin dome, Canadian Cordillera (translated title). *Completed in December 2013*, University of Milan.
- Mara Bellavita (co-supervisor): Micro-structural analysis of basic meta-dikes and their country rocks at Frigg Glacier in the Thor-Odin dome, Canadian Cordillera (translated title); *completed in July 2009*, University of Milan.
- Lorenzo Bado (co-supervisor): Meso- and micro-structural analysis of the northeastern margin of Biella Tertiary pluton, Western Alps (translated title); *completed in April 2006*, University of Milan.
- Diane Rose (co-supervisor): Study on late-Variscan acidic and basic dykes in the Argentera complex, External Variscan massif, Maritime Alps, Italy (translated title); *completed in July 2005*, University of Milan.

B.Sc. students:

- Davide Bonassi (supervisor): Multiscale structural analysis of basement and sedimentary cover rocks from the eastern Orobic Alps, Italy. *Completed in December 2018*. University of Milan.
- Enrico Scarpa (supervisor): Numerical modelling of the contact metamorphic aureole of the Biella

pluton. *Completed in December 2017*. University of Milan.

- Francesca Alborghetti (*supervisor*): Microstructural and mineral chemical analysis of metapelites from the Argentera massif (translated title). *Completed in July 2017*. University of Milan.
- Gilberto Bonati (*supervisor*): Microstructural and mineral chemical analysis of monzonite from the western margin of Biella pluton, Western Alps, Italy (translated title). *Completed in February 2016*. University of Milan.
- Tommaso Mondini (*supervisor*): Microstructural and mineral chemical analysis of Zermatt-Saas metaophiolite at Valtouranche, Italy (translated title). *Completed in July 2015*. University of Milan.
- Marco Filippi (*supervisor*): Microstructural analysis of Zermatt-Saas metaophiolite at Valtouranche, Italy (translated title). *Completed in December 2014*, University of Milan.
- Andrea Sesini (*co-supervisor*): Study on peridotite boudins from Thor-Odin high strain zone, Mount Symonds, Canadian Cordillera (translated title); *completed in April 2010*, University of Milan.
- Marco Casati (*co-supervisor*): Micro-structural analysis of eclogitic micaschists of the Sesia-Lanzo Zone at the contact with the Biella pluton – Oropa (translated title); *completed in July 2006*, University of Milan.

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