

Edoardo Dallanave, PhD

PERSONAL INFORMATION

Name and last name	Edoardo Dallanave
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Place and date of birth	Milan (Italy), 25 November 1976



ACADEMIC EXPERIENCE

Oct. 2018-Today	Principal Investigator (Research Associate) at the Faculty of Geosciences (FB5) of the University of Bremen (Germany); Guest Scientist from Feb. to Aug. 2021 and from Dec. 2023.
March 2012–March 2018	Principal Investigator (Research Associate) at the Department of Earth and Environmental Sciences of the Ludwig Maximilians University (München, Germany).
March 2010–Feb. 2012	Postdoctoral Research Fellow at the Geosciences Department of the University of Padova (Italy).
Jan. 2007– Dec. 2009	Ph.D. student at the Geosciences Department of the University of Padova (Italy).
March 2005–Dec. 2006	Research work in collaboration with the Geological Survey of Lombardy (Italy) and the Fossils Museum of Meride (Switzerland). <i>Work Description:</i> Magnetic stratigraphy and characterization of Alpine Triassic sedimentary rocks.

EDUCATION

March 2010	Ph.D. in Earth Science. <i>Awarding institution:</i> University of Padova (Italy).
October 2004	Degree in Earth Science. <i>Awarding institution:</i> University of Milan (Italy).

ITALIAN NATIONAL SCIENTIFIC HABILITATION

9th Nov. 2020	Habilitation valid until 8 th Nov. 2029 for Associate Professor in Stratigraphic Geology
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MAIN RESEARCH INTERESTS

I am a geologist specialized in stratigraphic geology, particularly in magnetostratigraphy and paleomagnetism applied to solve geological problems. These include magneto-biochronology, paleogeographic reconstructions, and also rock-magnetic properties of sediments and volcanic materials. My interest in paleogeography has been largely addressed to the southwest Pacific area (Zealandia continent) as well as the Alpine Tethys area during the Meso-Cenozoic, as tested by a number of publications and several funded proposals (three of them as Principal Investigator) for a total of approximately 1M€. For doing this, I acquired great deal of fieldwork experience, performing geological mapping and logging of stratigraphic sections, even in remote areas and hostile environmental conditions. Among the different topics, I am currently working on the stratigraphic records recovered during **IODP Exp. 371** and **IODP Exp. 392**, on which I sailed as on-board Paleomagnetist. More recently, I have been awarded with a grant (~254k€) supporting a project aiming to refine the Middle-Late Jurassic global paleogeography by analyses of sedimentary rock sections exposed in continental Africa. Within the **IODP frame**, I am part of a working group conducting research on several **Paleogene hyperthermals** that, with the current CO₂ emission rates, are the best analogous in the geological past of the possible near future of our planet.

AWARDED RESEARCH FUNDS

DA1757/3-1 Sept. 2021-Dec. 2023 <u>Grant: 254,000 €</u>	Principal Investigator <i>Dissecting the Jurassic monster polar shift: Paleomagnetic analyses of Middle-Late Jurassic sedimentary rocks from Ethiopia.</i> Fully funded by the Deutsche Forschungsgemeinschaft (DFG) for 24 months at the University of Bremen (Germany).
DA1757/2-1 Oct. 2018-Dec. 2020 <u>Grant: 192,000 €</u>	Principal Investigator <i>Exploring the coupling between plate tectonic and climate evolution: Eocene-Oligocene chronology of the southwest Pacific.</i> Fully funded by the Deutsche Forschungsgemeinschaft (DFG) for 24 months at the University of Bremen (Germany).
DA1757/1-1 March 2015-Feb. 2018 <u>Grant: 274,000 €</u>	Principal Investigator <i>Early Cenozoic climate and tectonic evolution of the southwest Pacific Ocean.</i> Fully funded by the Deutsche Forschungsgemeinschaft (DFG) for 36 months at the LMU München (Germany).
BA1210/19-1, -2 March 2012-Feb. 2015 <u>Total Grant: 289,000 €</u>	Main proponent and executor <i>Magnetostratigraphy and rock-magnetism of the Mead Stream section, New Zealand: a tool to investigate the temporal and spatial evolution of a Late Cretaceous-early Eocene southern Pacific continental margin.</i> Fully funded by the Deutsche Forschungsgemeinschaft (DFG) for 36 (24+12) months at the LMU München (Germany).

INTERNATIONAL OCEAN DISCOVERY PROGRAM (IODP)

IODP Exp. 392 (Feb. 5–Apr. 7 2022)	Onboard Paleomagnetist during IODP Exp. 392 "Agulhas Plateau Cretaceous Climate" on the vessel JOIDES Resolution. https://iodp.tamu.edu/scienceops/expeditions/agulhas_plateau_climate.html
IODP Exp. 371 (July 26–Sept. 27 2017)	Onboard Paleomagnetist during IODP Exp. 371 "Tasman Frontier Subduction Initiation and Paleogene Climate" on the vessel JOIDES Resolution. https://iodp.tamu.edu/scienceops/expeditions/tasman_frontier_subduction_climate.html

TEACHING

Parallel to my research activity within German Academia, I have also developed teaching experience, in both lecture series and supervising students of Bachelor and Master of Science levels. Lectures have consisted either of an entire semester course designed and carried out by myself, or modules part of a larger courses.

**University of Bremen
(Germany)** *ECORD Summer School, MARUM*
Paleomagnetism Module
➤ 2023, 4-15 September

ECORD Training Course, MARUM
Paleomagnetism Module
➤ 2023, 13-17 March
➤ 2019, 25-29 March

➤ Winter semester 2020
Applied Geophysics: Methods – Paleomagnetic module, 15h of frontal lectures at the Faculty of Geosciences.

➤ Summer semester 2019
Marine environmental archive project, 3h weekly lectures, Faculty of Geosciences.

Supervisor of several Data Analysis projects as part of the MSc program.

**University of Padova
(Italy, INVITED)**

➤ 2022, 14-18 November
Paleomagnetism: from the geologic time scale to paleogeographic reconstructions, short course for the graduate program in Geology, 10h of frontal lectures, Department of Geosciences.

**Ludwig Maximilians
University
(Munich, Germany)**

➤ 2016, summer semester
Paleomagnetism: application to magnetostratigraphy and paleogeography. Weekly lectures 2h (20h in total) at the Department of Earth and Environmental Sciences, LMU München.

**Supervised BSc and MSc
Students**

Please refer to the list below after the Publications.

EDITORIAL BOARD MEMBERSHIP & CONVENING

**Editorial Board
membership** Officially invited to join the Editorial Board of **New Zealand Journal of Geology and Geophysics** (Wiley Publishing Co.) in January 2024

CBEP12 Member of the Scientific Committee of the Climate and Biotic Events of the Paleogene 12; Co-organizer and Chair of the meeting Theme 4: "Tectonics, Surface Environments and Hydrological Processes", consisting of two sessions:
4.1- Source-to-sink sedimentation during warm intervals of the Paleogene
4.2- Impact of paleogeography on our understanding of Paleogene Climate
<https://www.marum.de/Forschung/Climatic-and-Biotic-Events-of-the-Paleogene-2020.html>

STRATI2019 Convener and co-chair of the General session on Stratigraphy (ST11.4)
(July 2019)

FIELDWORK

A big part of my scientific career consists of fieldwork. I conducted several field campaigns in order to carry on geological mapping, stratigraphic sections logging and sampling, even in hostile environmental conditions. Below are outlined the most relevant. The associated publications are listed in the Publications section.

**Ethiopia
(2022)** Preliminary 15-days fieldwork campaign near Dejen to perform description, logging, and sampling for magneto-biostratigraphy of Upper Jurassic sections exposed in the Blue Nile valley.

**New Caledonia
(2014-2018)** Three fieldwork campaigns around the island, for a total of 6 weeks, to perform logging and description of sedimentary sections, and sampling for paleomagnetic and biostratigraphic studies.

**New Zealand
(2012-2020)** Five field campaigns, for a total of ~10 weeks, in different parts of both the North and the South Islands, to perform mapping, logging, description, and sampling of Cenozoic sedimentary sections.

**Venetian Southern Alps
(2007-2018)** Several field campaigns, related also to my doctorate work, in order to perform logging, description, and sampling for magneto-biostratigraphy of several sedimentary sections cropping out in the Piave River valley (Belluno).

Northern Alps Field campaign, in high mountain environment, to log and sample Jurassic and Cretaceous sedimentary rocks belonging to the Briançonnais paleogeographic domain (Alpine Tethys).

Giudicarie Alps Approximately 1 months of fieldwork to perform geological mapping around the village of Daone (TN, Italy), related to my MSc activities.

PUBLICATIONS

The link to each publication can be found here: <https://edoardodallanave.wixsite.com/mysite>.

- 2024**
- **Dallanave, E.**, 2024. Assessing the reliability of paleomagnetic datasets using the R package PmagDiR. *Scientific Reports*, accepted for publication.
 - Viganò, E. **Dallanave**, L. Alegret, T. Westerhold, R. Sutherland, G. R. Dickens, C. Newsam, C. Agnini, 2023. Calcareous nannofossil biostratigraphy and biochronology across the Eocene-Oligocene transition: the record at IODP Site U1509 (Tasman Sea) and a global overview. *Newsletters Stratigr.* 57, 1–23, doi: 0.1127/nos/2023/0751
- 2023**
- Uenzelmann-Neben, G., Bohaty, S.M., Childress, L.B., Archontikis, O.A., Batenburg, S.J., Bijl, P.K., Burkett, A.M., Chanda, P., Coenen, J.J., **Dallanave, E.**, Davidson, P.C., Doiron, K.E., Geldmacher, J., Gürer, D., Haynes, S., Herrle, J.O., Ichiyama, Y., Jana, D., Jones, M., Kato, C., Kulhanek, D.K., Li, J., Liu, J., McManus, J., Minakov, A.N., Penman, D.E., Sprain, C.J., Tessin, A.C., Wagner, T., Westerhold, T., 2023. Agulhas Plateau Cretaceous Climate, Proceedings of the International Ocean Discovery Program. International Ocean Discovery Program, College Station, Texas, USA. <https://doi.org/10.14379/iodp.proc.392.2023>
 - Gastaldello, M.E., Agnini, C., Westerhold, T., Drury, A.J., Sutherland, R., Drake, M.K., Lam, A.R., **Dallanave, E.**, Burns, S., Alegret, L., 2023. The Late Miocene-Early Pliocene Biogenic Bloom: An integrated study in the Tasman Sea. *Paleoceanography and Paleoclimatology* 38, e2022PA004565, doi: 10.1029/2022PA004565.
 - Kirscher, U., **Dallanave, E.**, Bachtadse, V., 2023. Paleoposition and Paleogeography of Egypt During the Phanerozoic Era, in: Hamimi, Z., Khozyem, H., Adatte, T., Nader, F.H., Oboh-Ikuenobe, F., Zobaa, M.K., El-Afty, H. (Eds.), *The Phanerozoic Geology and Natural Resources of Egypt*. Springer, p. 874. ISBN: 978-3-030-95636-3.
- 2022**
- **Dallanave, E.**, Sutherland, R., Dickens, G.R., Chang, L., Tema, E., Alegret, L., Agnini, C., Westerhold, T., Newsam, C., Lam, A.R., Stratford, W.R., Collot, J., Etienne, S.J.G., Von Dobeneck, T., 2022. Absolute Paleolatitude of Northern Zealandia from the Middle Eocene to the Early Miocene. *Journal of Geophysical Research: Solid Earth* 127, 1–19, doi: 10.1029/2022JB024736.
 - Uenzelmann-Neben, G., Bohaty, S.M., Childress, L.B., Archontikis, O.A., Batenburg, S.J., Bijl, P.K., Burkett, A.M., Chanda, P., Coenen, J.J., **Dallanave, E.**, Davidson, P.C., Doiron, K.E., Geldmacher, J., Gürer, D., Haynes, S., Herrle, J.O., Ichiyama, Y., Jana, D., Jones, M., Kato, C., Kulhanek, D.K., Li, J., Liu, J., McManus, J., Minakov, A.N., Penman, D.E., Sprain, C.J., Tessin, A.C., Wagner, T., Westerhold, T., 2022. Agulhas Plateau Cretaceous Climate: drilling the Agulhas Plateau and Transkei Basin to reconstruct the Cretaceous–Paleogene tectonic and climatic evolution of the Southern Ocean basin. *Int. Ocean Discov. Progr. Prelim. Reports* 392, 1–56, doi: 10.14379/iodp.pr.392.2022.
 - Stratford, W.R., Sutherland, R., Dickens, G.R., Blum, P., Collot, J., Gurnis, M., Saito, S., Bordenave, A., Etienne, S.J.G., Agnini, C., Alegret, L., Asatryan, G., Bhattacharya, J., Chang, L., Cramwinckel, M.J., **Dallanave, E.**, Drake, M.K., Girogioni, M., Harper, D.T., Huang, H.-H.M., Keller, A.L., Lam, A.R., Li, H., Matsui, H., Morgans, H.E.G., Newsam, C., Park, Y.-H., Pascher, K.M., Pekar, S.F., Penman, D.E., Westerhold, T., Zhou, X., 2022. Timing of Eocene compressional plate failure during subduction initiation, northern Zealandia, southwestern Pacific. *Geophysical Journal International* 229, 1567–1585, doi: 10.1093/gji/ggac016.
 - Sutherland, R., Dos Santos, Z., Agnini, C., Alegret, L., Lam, A.R., Westerhold, T., Drake, M., Harper, D.T., **Dallanave, E.**, Newsam, C., Cramwinkel, M.J., Dickens, G.R., Collot, J., Etienne, S.J.G., Bordenave, A., Stratford, W.R., Zhou, X., Li, H., Asatryan, G., 2022. Neogene mass accumulation rate of carbonate sediment across northern Zealandia, Tasman Sea, southwest Pacific. *Paleoceanography and Paleoclimatology* 37, e2021PA004294, doi: 10.1029/2021PA004294.
- 2021**
- Kirscher, U., Atfy, H. El, Gärtner, A., **Dallanave, E.**, Munz, P., Niedzwiedzki, G., Athanassiou, A., Fassoulas, C., Linnemann, U., Hofmann, M., Bennett, M., Ahlberg, P.E., Böhme, M., 2021. Age constraints for the Trachilos footprints from Crete. *Sci. Rep.* 11, 1–9, doi: 10.1038/s41598-021-98618-0
 - Kirscher, U., **Dallanave, E.**, Weissbrodt, V., Stojakowits, P., Grau, M., Bachtadse, V., Mayr, C., 2021. The Laschamps geomagnetic excursion recorded in continental sediments from southern Germany. *Geophysical Journal International* 227, 1354–1365, doi: 10.1093/gji/ggab276.

- Alegret, L., Harper D.T., Agnini, C., Newsam, C., Westerhold, T., Cramwinckel, M.J., **Dallanave, E.**, Dickens, G.R., Sutherland, R., 2021. Biotic response to early Eocene warming events: Integrated record from offshore Zealandia, north Tasman Sea. *Paleoceanography and Paleoclimatology* 36, e2020PA004179, 1–23, doi: 10.1029/2020PA004179.

- 2020**
- **Dallanave, E.**, Kirscher, U., 2020. Testing the reliability of sedimentary paleomagnetic dataset for paleogeographic reconstructions. *Frontiers in Earth Sciences, Section Geomagnetism and Paleomagnetism*, 8:592277, 1–16, doi: 10.3389/feart.2020.592277.
 - **Dallanave, E.**, Maurizot, P., Agnini, C., Sutherland, R., Hollis, C.J., Collot, J., Dickens, G.R., Bachtadse, V., Strogen, D.P., Morgans, H.E.G., 2020. Eocene (46-44 Ma) onset of Australia-Pacific plate motion in the southwest Pacific inferred from stratigraphy in New Caledonia and New Zealand. *Geochemistry Geophys Geosystems* 21(7), doi: 10.1029/2019GC008699.
 - **Dallanave, E.**, Chang, L., 2020. Early Eocene to early Miocene magnetostratigraphic framework for IODP Expedition 371 (Tasman Frontier Subduction Initiation and Paleogene Climate). *Newsletter on Stratigraphy* 53(4), 365–387, doi: 10.1127/nos/2019/0556.
 - Kirscher, U., Gevorgyan, H., Meliksentian, K., Navasardyan, G., **Dallanave, E.**, Breitkreuz, C., Bachtadse, V., 2020. Quaternary ignimbrites of western Armenia - Paleomagnetic and anisotropy constraints on flow direction and stratigraphy. *Journal of volcanology and geothermal research* 402, 1-16, doi: 10.1016/j.jvolgeores.2020.106982.
 - Sutherland, R., Dickens, G.R., Blum, P., Agnini, C., Alegret, L., Asatryan, G., Bhattacharya, J., Bordenave, A., Chang, L., Collot, J., Cramwinckel, M.J., **Dallanave, E.**, Drake, M.K., Etienne, S.J.G., Giorgioni, M., Gurnis, M., Harper, D.T., Huang, H.-H.M., Keller, A.L., Lam, A.R., Li, H., Matsui, H., Morgans, H.E.G., Newsam, C., Park, Y.-H., Pascher, K.M., Pekar, S.F., Penman, D.E., Saito, S., Stratford, W.R., Westerhold, T., Zhou, X., 2020. Continental scale of geographic change across Zealandia during Paleogene subduction zone initiation. *Geology* 48, doi: 10.1130/G47008.1.
 - Crouch, E.M., Morgans, H.E.G., Shepherd, C.L., Naafs, B.D.A., **Dallanave, E.**, Phillips, A., Hollis, C.J., Pancost, R.D., 2020. Climatic and environmental changes across the Early Eocene Climatic Optimum at mid-Waipara River, Canterbury Basin, New Zealand. *Earth Sciences Reviews* 200, 1-20, doi: 10.1016/j.earscirev.2019.102961.
 - Luciani, V., Fornaciari, E., Papazzoni, C., **Dallanave, E.**, Giusberti, L., Stefani, C., Amante, E., 2020. Integrated stratigraphy at the Bartonian-Priabonian transition: correlation between shallow benthic and calcareous plankton zones (Varignano section, northern Italy). *Geological Society of America Bulletin* 132, 495-520, doi: 10.1130/B35169.1.
- 2019**
- Rivero Cuesta, L., Westerhold, T., Agnini, C., **Dallanave, E.**, Wilkens, R.H., Alegret, L., 2019. Paleoenvironmental changes at ODP Site 702 (South Atlantic): anatomy of the Middle Eocene Climatic Optimum. *Paleoceanogr. Paleoclimatology* 34, 1–20, doi: 10.1029/2019PA003806.
 - Sutherland, R., Dickens, G.R., Blum, P., Agnini, C., Alegret, L., Bhattacharya, J., Bordenave, A., Chang, L., Collot, J., Cramwinckel, M.J., **Dallanave, E.**, Drake, M.K., Etienne, S.J.G., Giorgioni, M., Gurnis, M., Harper, D.T., Huang, H.-H.M., Keller, A.L., Lam, A.R., Li, H., Matsui, H., Morgans, H.E.G., Newsam, C., Park, Y.-H., Pascher, K.M., Pekar, S.F., Penman, D.E., Saito, S., Stratford, W.R., Westerhold, T., Zhou, X., 2019. Tasman Frontier Subduction Initiation and Paleogene Climate, *Proceedings of the Integrated Ocean Drilling Program Volume 371. International Ocean Discovery Program*, College Station, Texas, USA, doi: 10.14379/iodp.proc.371.2019.
- 2018**
- **Dallanave, E.**, Kirscher, U., Hauck, J., Hesse, R., Bachtadse, V., Wortmann, U.G., 2018. Paleomagnetic time and space constraints of the Early Cretaceous Rhenodanubian Flyschzone (Eastern Alps). *Geophysical Journal International* 213, 1804–1817, doi: 10.1093/gji/ggy077.
 - **Dallanave, E.**, Agnini, C., Pascher, K.M., Maurizot, P., Bachtadse, V., Hollis, C.J., Dickens, G.R., Collot, J., Monesi, E., 2018. Magneto-biostratigraphic constraints of the Eocene micrite-calciturbidite transition in New Caledonia: tectonic implications. *New Zealand Journal of Geology and Geophysics* 61(2), 145–163, doi: 10.1080/00288306.2018.1443946.

- Sutherland, R., Dickens, G.R., Blum, P., Agnini, C., Alegret, L., Bhattacharya, J., Bordenave, A., Chang, L., Collot, J., Cramwinckel, M.J., **Dallanave, E.**, Drake, M.K., Etienne, S.J.G., Giorgioni, M., Gurnis, M., Harper, D.T., Huang, H.-H.M., Keller, A.L., Lam, A.R., Li, H., Matsui, H., Morgans, H.E.G., Newsam, C., Park, Y.-H., Pascher, K.M., Pekar, S.F., Penman, D.E., Saito, S., Stratford, W.R., Westerhold, T., Zhou, X., 2018. Expedition 371 Preliminary Report: Tasman Frontier Subduction Initiation and Paleogene Climate. International Ocean Discovery Program, doi: 10.14379/iodp.pr.371.2018.
- 2017**
- Di Genova, D., Kolzenburg, S., Wiesmaier, S., **Dallanave, E.**, Neuville, D., Hess, K.U., Dingwell, D., 2017. A subtle chemical tipping point governing mobilization and eruption style of rhyolitic magma. *Nature* 552, 235–238, doi: 10.1038/nature24488.
- 2016**
- **Dallanave, E.**, Bachtadse, V., Crouch, E.M., Tauxe, L., Shepherd, L., Morgans, H.E.G., Hollis, C.J., Hines, B.R., Sugisaki, S., 2016. Constraining early to middle Eocene climate evolution of the southwest Pacific and Southern Ocean. *Earth and Planetary Sciences Letters* 433, 380-392, doi: 10.1016/j.epsl.2015.11.010.
 - D’Onofrio, R., Luciani, V., Fornaciari, E., Giusberti, L., Boscolo Galazzo, F., **Dallanave, E.**, Westerhold, T., Sprovieri, M., Telch, S., 2016. Environmental perturbation at the early Eocene ETM2, H2, and I1 events as inferred by Tethyan calcareous plankton (Terche section, northeastern Italy). *Paleoceanography* 31, 1225–1247, doi: 10.1002/2016PA002940.
 - Agnini, C., Spofforth, D.J.A., Dickens, G.R., Rio, D., Pälike, H., Backman, J., Muttoni, G., **Dallanave, E.**, 2016. Stable isotope and calcareous nannofossil assemblage records for the Cicogna section: toward a detailed template of the late Paleocene and early Eocene global carbon cycle and nannoplankton evolution. *Climate of the Past* 11, 4329–4389, doi: 10.5194/cpd-11-4329-2015.
 - Nalin, R., Ghinassi, M., Foresi, L.M., **Dallanave, E.**, 2016. Carbonate deposition in restricted basins: a Pliocene case study from the central Mediterranean (northwestern Apennines). *Journal of Sedimentary Research* 86, 236–367, doi: 12.2110/jsr.2016.14.
- 2015**
- **Dallanave, E.**, Agnini, C., Bachtadse, V., Muttoni, G., Crampton, J.S., Strong, C.P., Hines, B.R., Hollis, C.J., Slotnick, B.S., 2015. Early to middle Eocene magneto-biochronology of the southwest Pacific Ocean and climate influence on sedimentation: Insights from the Mead Stream section, New Zealand. *Geological Society of America Bulletin* 127(5/6), 643-660, doi: 10.1130/B31147.1.
 - Bianchi, V., Salles, T., Ghinassi, M., Billi, P., **Dallanave, E.**, Duclaux, G., 2015. Numerical modeling of tectonically driven river dynamics and deposition in an upland incised valley. *Geomorphology* 241, 353–370, doi: 10.1016/j.geomorph.2015.04.007.
 - Muttoni, G., Tartarotti, P., Chiari, M., Marieni, C., Rodelli, D., **Dallanave, E.**, Kirsher, U., 2015. Paleolatitude of Late Triassic radiolarian cherts from Argolis, Greece: Insights on the paleogeography of the western Tethys. *Palaeogeography, Palaeoclimatology, Palaeoecology* 417, 476-490, doi: 10.1016/j.palaeo.2014.10.010.
- 2014**
- **Dallanave, E.**, Bachtadse, V., Agnini, C., Muttoni, G., Hollis, C.J., Hines, B.R., Morgans, H.E.G., Strong, C.P., Tauxe, L., Crampton, J.S., 2014. Early-middle Eocene magneto-biochronology of the Southern Pacific Ocean: new data from the South Island of New Zealand. *Rend. Online Soc. Geol. It.* 31, 50-51, doi: 10.3301/ROL.2014.40.
- 2013**
- Muttoni, G., **Dallanave, E.**, Channell, J.E.T., 2013. The drift history of Adria and Africa from 280 Ma to present, Jurassic true polar wander, and zonal climate control on Tethyan sedimentary facies. *Palaeogeography, Palaeoclimatology, Palaeoecology* 386, 415–435, doi: 10.1016/j.palaeo.2013.06.011.
- 2012**
- **Dallanave, E.**, Agnini, C., Muttoni, G., Tauxe, L., Rio, D., 2012. Is there a normal magnetic polarity event during the Paleocene-Eocene thermal maximum (~55 Ma)? Insight from the paleomagnetic record of the Belluno Basin (Italy). *Geophysical Journal International* 191(2), 517–519, doi: 10.1111/j.1365-246X.2012.05627.x.
 - **Dallanave, E.**, Agnini, C., Muttoni, G., Rio, D., 2012. Paleocene magneto-biostratigraphy and climate-controlled rock magnetism from the Belluno Basin, Tethys Ocean, Italy. *Palaeogeography, Palaeoclimatology, Palaeoecology* 337–338, 130–142, doi: 10.1016/j.palaeo.2012.04.007.

- 2010** • **Dallanave, E.**, Tauxe, L., Muttoni, G., Rio, D., 2010. The silicate weathering machine at work: Rock-magnetic data from the Cicogna section (NE Italy). *Geochemistry, Geophysics, Geosystems* 11(7), Q07008, doi: 10.1029/2010GC003142.
- **Dallanave, E.**, Muttoni, G., 2010. Il segreto del clima è nelle rocce (*The secret of the climate is in the rocks*). *Darwin* 37, 40–45 (*not peer reviewed*).
- 2009** • **Dallanave, E.**, Agnini, C., Muttoni, G., Rio, D., 2009. Magneto-biostratigraphy of the Cicogna section (Italy): implications for the late Paleocene–early Eocene time scale. *Earth and Planetary Science Letters* 285, 39–51, doi: 10.1016/j.epsl.2009.05.033.
- 2008** • Agnini C., **Dallanave E.**, Fornaciari E., Giusberti L., Grandesso P., Rio D., Stefani C., Backman J., Capraro L., Lanci L., Luciani V., Muttoni G., Palike H., Spofforth D. & Tateo F., 2008. Il Paleogene inferiore in facies pelagica del Veneto nord-orientale (*The early Paleogene pelagic sediments of the NE Veneto Region*). *Rendiconti online Soc. Geol. It.* 4, 5–12.

CONFERENCE ABSTRACTS (first Author only)

- **Dallanave E.**, et alii. Middle Eocene to the early Miocene northward migration of northern Zealandia determined from the sedimentary record of IODP Exp. 371 (Tasman Sea). *EGU General Assembly 2023*, 23–28 April 2023, Vienna (Austria).
- **Dallanave E.**, et alii. Middle Eocene to early Miocene absolute paleolatitude of northern Zealandia determined from the sedimentary record of IODP Exp. 371 (Tasman Sea). *IODP/ICDP Colloquium 2022*, Potsdam (Germany).
- **Dallanave E.**, et alii. Absolute Paleolatitude of Northern Zealandia from the Middle Eocene to the Early Miocene: Implications for the southwest Pacific Ocean Paleogeography. *CBEP12*, 2022, Bremen (Germany).
- **Dallanave E.**, et alii. Middle Eocene to Early Miocene absolute paleolatitude of northern Zealandia. *Magnetic Interaction 2022*, online conference.
- **Dallanave E.**, et alii. Middle Eocene onset of Australia-Pacific plate motion in the southwest Pacific inferred from stratigraphy in New Caledonia and New Zealand. *IAGA-IASPEI 2021*, online conference.
- **Dallanave E.**, et alii. Magnetostratigraphic framework for IODP Expedition 371 (Tasman Frontier Subduction Initiation and Paleogene Climate). *STRATI 2019*, Milan (Italy).
- **Dallanave E.**, et alii. Timing of the Eocene plate motion change in the southwest Pacific: the Magnetostratigraphic record of New Caledonia and New Zealand. *EGU Meeting 2019*, Vienna (Austria).
- **Dallanave E.**, et alii. Magnetostratigraphic framework for IODP Expedition 371 (Tasman Frontier Subduction Initiation and Paleogene Climate): preliminary results. *IODP/ICDP Kolloquium 2019*, Köln (Germany).
- **Dallanave E.**, et alii. IODP Expedition 371: Tasman Frontier Subduction Initiation and Paleogene Climate. *IODP/ICDP Kolloquium Bochum 2018*, Bochum (Germany).
- **Dallanave E.**, et alii. Eocene tectonic compression in Northern Zealandia: Magneto-biostratigraphic constraints from the sedimentary records of New Caledonia (Southwest Pacific Ocean). *AGU Fall Meeting 2017*, New Orleans (LA, USA).
- **Dallanave E.**, **(keynote speaker)** et alii. Early to middle Eocene chronology of Zealandia: magnetostratigraphic data from New Zealand and New Caledonia. *Geological Society of New Zealand Meeting 2015*, Wellington (New Zealand).
- **Dallanave E.**, et alii. Tracing the efficiency of chemical weathering through magnetic properties of sediment: The Paleocene–Eocene case study. *Goldschmidt 2015*, Prague (Czech Republic).
- **Dallanave E.**, et alii. Early to middle Eocene magneto-biochronology of the southwest Pacific Ocean and climate influence on sedimentation: new data from the Mead Stream section (Marlborough, New Zealand). *AGU Fall Meeting 2014*, San Francisco (CA, USA).
- **Dallanave E.**, et alii. Early–middle Eocene magneto-biochronology of the Southern Pacific Ocean: new data from the South Island of New Zealand. *CBEP Meeting 2014*, Ferrara (Italy).

- **Dallanave E.**, et alii. Early–middle Eocene magneto-biochronology of the Southern Pacific Ocean: new data from the South Island of New Zealand. AGU Fall Meeting 2012, San Francisco (CA, USA).
- **Dallanave E.**, et alii. Magneto-biostratigraphy and rock-magnetism of the late Cretaceous–late Paleocene Ardo section (Belluno Basin, NE Italy). EGU Meeting 2011, Vienna (Austria).
- **Dallanave E.**, et alii. Late Cretaceous–early Eocene magneto-biostratigraphy and rock-magnetism from the Belluno Basin (NE Italy). CBEP Meeting 2011, Salzburg (Austria).
- **Dallanave E.**, et alii. Late Paleocene to Early Eocene Magneto-Biostratigraphy of the Cicogna section (Belluno Basin, NE Italy): A record of continental weathering. EGU Meeting 2009, Vienna (Austria).
- **Dallanave E.**, et alii. Magnetic characterization of the late Paleocene–early Eocene Cicogna section (NE Italy): climate forcing on sedimentation. AGU Fall meeting 2009, San Francisco (CA, USA).
- **Dallanave E.**, et alii. The magneto-bio-chemostratigraphy of the Torrente Cicogna section (Italy): a record of Late Paleocene-Early Eocene climate. EGU Meeting 2008, Vienna (Austria).
- **Dallanave E.**, et alii. Late Paleocene to Early Eocene Magneto-Biostratigraphy of the Cicogna section (Belluno Basin, NE Italy), AGU Fall Meeting 2008, San Francisco (CA, USA).

SUPERVISED THESIS

- **Baha' Eid**, 2018. Application of Paleomagnetism to Track the Jurassic True Polar Wander in Mount Lebanon, M.Sc., LMU-München (DE), Advisor.
- **Tobias Burkhard**, 2018. Magnetostratigraphy of the Cadart-1 borehole (New Caledonia). B.Sc., LMU-München (DE), Advisor.
- **Enrico Amante**, 2015. Bio-magnetostratigraphy of the Bartonian-Priabonian transition in the Varignano section (Trento, Italy). M.Sc., University of Ferrara (IT), Co-Advisor.
- **Florian J. Augustin**, 2015. Magnetostratigraphic determination of a drill core with Paleocene–Eocene age from Bourail, New Caledonia, B.Sc. LMU-München (DE), Co-Advisor.
- **Maximilian Huber**, 2015. Magnetostratigraphy of a marine section form Koumac, New Caledonia, B.Sc. LMU-München (DE), Co-Advisor.
- **Sara Hable**, 2012. Rock- and Paleomagnetic studies of the Eocene sediments of the Ashley Mudstone, North Canterbury, New Zealand. B.Sc., LMU-München (DE), Co-Advisor.
- **Chiara Turisini**, 2009. Paleomagnetismo della successione Giurassico-Cretacica dell’isola di Maio (Arcipelago di Capo Verde), M.Sc., University of Milan (IT), Co-Advisor.
- **Emanuele Borghetti**, 2008. Studio paleomagnetico della sezione del Torrente Cicogna (Alpi Venete) (*Paleomagnetic study of the Torrente Cicogna section (Venetian Alps)*). B.Sc., University of Milan (IT), Co-Advisor.