

CV

Personal information

Gemignani Lorenzo, PhD
17.08.1985 - Massa (Italy)
Italian

Experience

- [2018 – 2023] Post-doc Research Associate (Wissenschaftlicher Mitarbeiter), Institute of Geological Sciences, FU Berlin, Germany. Responsible for overseeing the mineral separation laboratory and conducting fission-tracks analysis, including data processing, modeling, and student supervision.
- [2013-2018] Graduate Research Assistant in the Noble Gas Laboratory, VU Amsterdam
- [2017-2018] Lecturer, Università degli Studi di Torino, Italy. Lectures of geology for international students (in English); Field trip course of the Sicilian fold and thrust belt, Sicily, Italy.
- [2014-2015] Guest Researcher, ISTerre, Grenoble, France. Fission-tracks laboratory fellow.

Education

- [2013-2018] [PhD] [Vrije Universiteit Amsterdam, Netherlands]
- [2009-2011] [MSc] [Università di Pisa, Italy]
- [2005-2009] [BSc] [Università degli Studi di Milano, Italy]
- [2000-2005] [Upper Secondary Education – *Liceo*] [Specialization, Classical Lyceum, Liceo Parini, Milan, Italy]

Awards and Fellowships

Granted Fellowship

1. MiNeRAL - Erasmus+, EU research project, Università degli Studi di Torino, Italy (12 Months).
2. iTECC - European Research Council FP7/People/2012/ITN, grant no.316966 (36 months)
3. ERASMUS+, Pierre-and-Marie-Curie University (Paris VI), Paris, France (6 months)

Third-Party Funding

Funding Period	Funding Agency	Title	Role	Decision
2021-2024	NaFöG granted to Ümit Erbil (MSc); 156,098.00 EU	Scholarship “From shortening to extension in the upper plate of subduction zones: Western Anatolian case)”	Co-PI Main-PI: Prof. Dr. Eline LeBreton (FU Berlin); Prof. Dr. Mark R. Handy (FU Berlin)	Approved;

2022-2023	Investitionsprogramms 2022 (FU Berlin); 11,758.09 EU	“Full format Color Camera (Nikon)”	Main Applicant	Approved
2020-2021	ST-1.1-RADIATE-Horizon 2020; Proposal Nr.:19001937- Instrument:Cosmogenic dating AMS	“Using cosmogenic nuclides to constrain the tectonic and erosional evolution of orogenic systems: A case study from the Dinaric-Hellenic transition.”	Main-PI:	Approved
2017-2022	DFG – Research Grant (350499904); 230, 827.00 EU	“From plate tectonic reconstructions to 4D geodynamic models of the Alpine Orogeny”	Co-PI Main PI: Prof. Mark Handy (FU Berlin)	Approved

Teaching Experience

- Winter Semester since 2018 Geological cartography, MSc and BSc, FU Berlin – 2 semester hours (SWS).
- Summer Semester since 2018 Geological Laboratory methods, MSc and BSc, FU Berlin – 2 SWS; Advanced Geological mapping, MSc and BSc, FU Berlin – 6 SWS.

PhD Thesis Supervision

- M.Sc. Marc Grund, "Tectonic evolution of the Skutari-Peja-Normal Fault (SPNF), Northern Dinarides" (co-supervised with Prof. Dr. Mark Handy).
- M.Sc. Ümitcan Erbil, "From shortening to extension in the upper plate of subduction zones:Western Anatolian case)" (co-supervised with Prof. Dr. Eline LeBreton; Prof. Dr. Mark R. Handy).

PhD Thesis Committee

- Dr. Julian A. Hülscher, "Tectonic Signal Propagation into the Oligocene to early Miocene Upper Austrian Foreland Basin – a Comparison of different Method", (2022), FU –Berlin (Germany). Internal reviewer, Coordinator: Prof. Timm John (Univ. FU - Berlin).
- Dr. Laura Nania, "Kinematics, non-coaxial flow and rheological constraints of the STDS and the MCTz in central Himalaya". CYCLE XXXIII, 2017/2020. External reviewer Coordinator Prof. L. Francalanci (Univ. Degli Studi di Firenze).
- Dr. Chiara Montemagni, "Geochronology and kinematics of crustal scale shear zones in the himalayan collisional belt". Cycle: XXXII 2015-2017, External reviewer, Coordinator: Prof. Maria Luce Frezzotti.

M.Sc. Thesis Supervision

- Leonardo Caprioli, "Structural analysis and geochronology of the SPNF at the transition with the Kosovo basin, Kosovo (co-supervised with Prof. Dr. Mark Handy). FU-Berlin, Germany.
- Benedict V. Mittelbach, "Erosion and accumulation rates of the Tropoja basin (NE Albania)" (Horizon 2020 - RADIATE). FU-Berlin, ETH- Zurich.
- Thomas van Gerve, "Exhumation rates from the eastern Alps as detected from mica Ar-dating" (co-supervised with Prof. Dr. Jan R. Wijbrans). VU Amsterdam, The Netherlands.

Erasmus+ Trainee

Mirko Stellato (BSc), University of Calabria (Italy); 6 months; Fission track analysis, also acted as MSc thesis' co-promotor.

Memberships and academic services

- IUGS – Secretary General of TecTask since 2018
- AGU (American Geophysical Union), since 2015
- EGU (European Geosciences Union) since 2014
- SGI (Italian Geological Society) since 2011
- IGHG (Italian Group of Himalayan Geology) since 2011

Congress Committee;

- Convener: SGI - SIMP (September 2022, Turin, Italy); “P23.Linking tectonics and climate in mountains building processes” (co-convener: Eline Le Breton, Alexander Rohrmann (Univ. FU-Berlin); Pietro Sternai (Univ. Bicocca, Milano).
- Scientific committee; Yorsget-2020, Catania, Italy.
- Organisation committee; HKT-2016, Aussois, France.

Reviewer Activity;

- Since 2018 - Solid Earth, Copernicus publications
- Since 2019 - Geosphere GSA editor.

Co-Organized Field Work Expeditions;

- 2021: Western Alps Field mapping class (FU Berlin, 2 weeks)
- 2019: Field mapping class - Kosovo and Albania, (FU Berlin, 2 weeks)
- 2017: Guide to fold and thrust belt geology, an example from East Sicily (Mineral project, 3 weeks).
- 2015: Yanmou basin, Hunnan-Sichuan, China (iTECC project, 5 weeks).
- 2014: Inside Himalayan lakes, Western Nepal (iTECC project, 8 weeks).
- 2013: Arunachal Pradesh and Assam, India (iTECC project, 9 weeks).
- 2013: Eastern Alps: Austria, Switzerland, Italy, Slovenia (iTECC project, 1 week).
- 2010: Himalaya, Mustang, Nepal (PRIN 2010, 8 weeks).
- 2008: Western Alps - Val Saint Bartelemy - Aosta Valley, Italy (5 weeks).

Academic self-administration activities

- Regular participation to **institute councils** (*Institutsrat*) and *Professorium* at the FU Berlin since 2018.
- Member of the working group “Image Film / Social Media” at the FU Berlin.
- Member of 2 PhD Commissions at the FU Berlin since 2018.

Other Professional Activities

[2012–2013] **Consultant geologist**; Evaluation of Diatomite and Calcite deposits (Algeria), Geofield srl., San Miniato (Pi), Italy. Ore deposit evaluation and mine planning. Technical reporting, due diligence.

[2011–2013] **Geophysics data surveys (Junior)**; Geoenergy srl., Cascina (Pi), Italy. Gravimetry planning and data acquisition. Low-frequency passive seismic spectroscopy data acquisition.

Personal Skills/Expertise

Molecular and Atomic Spectroscopy

- Noble-Gas Mass Spectrometry
- Fission-track analysis (zircon - apatite).
- Electron microprobe analysis and scanning electron microscopy (EMP and SEM).
- LA ICP Mass Spectrometry.

Fieldwork Geology/Geophysics

- Field work analysis and collection of structural, and surface data;
- Analysis of rocks fabric and kinematic indicators, geological mapping and sampling.
- Lakes sediment coring.
- Exploration geophysics: Passive low-frequency seismic network analysis, gravimetric analysis, topographic analysis.
- Geographical Information System (GIS).
- GPS and GNSS: Data acquisition and processing.

Management activity

- Team organization and project leading.
- Field expedition organization.
- High altitude (>4000 m a.s.l) and remote area field expeditions.

Informatics

- Linux and Windows OS
- Microsoft Office, Open Office
- Adobe Suite
- GIS: (ArcGIS, QGIS)
- Languages: Matlab, R, Python, LaTeX
- Online meeting and teaching: Webex/Zoom/Mentimeter/SketchTogether

Languages

- Italian Native *Mother Tongue*
- English Advanced *Working proficiency*
- French Advanced *Working proficiency*
- German *Basic*