



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

DIPARTIMENTO
DI FISICA E ASTRONOMIA
"AUGUSTO RIGHI"

Physics | Geophysics | Seismology | Volcanology

Curriculum Vitae

Luca De Siena

Associate Professor of Geophysics at the Department of Physics and Astronomy

Honorary Senior Lecturer at the University of Aberdeen, UK

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Curriculum Vitae in Brief

Luca De Siena, born in Salerno (Italy) on 26/05/1980 - Married with two children.

Orcid: [0000-0002-3615-5923](https://orcid.org/0000-0002-3615-5923) - Passport: YB1376717

Research, teaching, and institutional highlights

Honours: *Fellow:* JSPS; HEA UK; HPC EUROPA2.

Sourced research funding since 2017: €1.807.000 from the EU, NERC, JSPS, DFG, SAGES, PTDF, Rhein-Palatinate, Cariplo-CDP and INGV.

Research group: *1 PDR and 4 PhDs* - former PDR and PhDs (9) and BSc/MSc (23).

Peer-reviewed papers: 60 of which 37 since 2019; Citations: 1554 of which 1115 since 2020; h-index: 23; h-10 index : 40.

Coordination and Teaching at UniBO: 135 hrs/year in the MSc *Physics of the Earth (Seismology I & II, Geophysics Inverse Theory)* and BSc *Marine Sciences (Physics I)*;

Administration at UniBO: *Research Commission, Research Funding, and Equal Opportunity Group* at the Dept. of Physics and Astronomy. Selection and Examination Boards of the PhD *Future Earth, Climate Change and Societal Challenges*;

International Conferences and Seminars since 2019: *EGU Officer, Seismology Division* (since 2024); *EGU Officer, GMPV Division* (2017-2020); *C*onvener of 22 sessions at international conferences, 16 invited talks and keynote lectures.

Editor & Reviewer : Associate Editor for *Journal of Volcanology and Geothermal Research*. 12 paper peer-review/year and 3 projects peer-review/year (DFG, CNRS, NSF, NERC, EU-HORIZON, MIUR) according to Publons-Web of Sciences.

Personal and Professional Data

Professional history, education and skills

2022-: Qualification as **Full Professor of Geophysics - GEO10** and **Full Professor of Planetary Physics - FIS06**, Italian Ministry of University and Scientific Research;

2023-present: **Associate Professor of Geophysics** at Alma Mater Studiorum Bologna (UniBO, Italy);

2019-2023: **Associate (W2) Professor of Geophysics** at Johannes Gutenberg Universität Mainz (Germany);

2014 - 2019: **Lecturer in Geophysics** at the University of Aberdeen (UK);

2010-2014: **Post-doc Research Assistant** at Universität Münster (Germany);

2009-2010: **Post-doc Researcher** at INGV - Osservatorio Vesuviano Napoli (Italy);

2009: **PhD in Geophysics** defended on **05/06/2009** and received from UniBO;

2005: **Diploma in Physics** defended on **14/07/2005** and received from Università Federico II di Napoli (Italy);

Research Interests: Geophysical imaging of volcanoes; Seismic tomography; Theoretical and computational geophysics; Seismic and volcanic hazards.

Languages: **Fluent** Italian + English; **Advanced** German (B2); **Basic** French.

Computing Skills: Operating Systems: **Unix**, Linux, Windows; *Programming:* Matlab, Fortran, C++, OpenMP, MPI, LaTeX, Paraview, Photoshop. *Developer:* **MuRAT**

Non-academic: Teacher of **Tango Argentino** since 2014.

Publications

Name of supervised students/post-docs in *italics red* (if during supervised period); IF: Impact Factor.

2024

60. B. Kaus, M. Thielmann, P. Aellig, A. de Montserrat, **L. De Siena**, J. Frasukiewicz, L. Fuchs, A. Piccolo, H. Ranocha, N. Riel, C. Schuler, A. Spang and T Weiler (2024). GeophysicalModelGenerator.jl: A Julia package to visualise geoscientific data and create numerical model setups. *The Journal of Open Access Software*, 9(103), 6763, IF: NA. DOI.
59. **L. De Siena**, A. Amoruso, S. Petrosino and L. Crescentini (2024). Geophysical Responses to an Environmentally-Boosted Volcanic Unrest. *Geophysical Research Letters*, 51 (5), e2023GL104895, IF: 5.58. DOI.
58. *Zhang Y.*, A. Stovas, **L. De Siena** (2024). Wavefield simulation and reverse time migration for acoustic TTI media. *Geophysics*, 13, 19680, IF: 3.3, DOI.
57. Borleanu F., L. Petrescu, A. O. Placinta, *Magrini F.*, B. Grecu, M. Radulian, and **L. De Siena** (2024). Seismic attenuation tomography of Eastern Europe from ambient seismic noise analysis. *Geophysical Journal International*, ggad408, IF: 3.35 DOI.

2023

56. Napolitano F., S. Gabrielli, **L. De Siena**, O. Amoroso and P. Capuano (2023). Imaging over-pressurised fracture networks and geological barriers hindering fluid migrations across a slow-deformation seismic gap. *Scientific Reports*, 13, 19680, IF: 4.6. DOI.
55. *Talone D.*, **L. De Siena**, G. Lavecchia and R. De Nardis (2023). The Attenuation and Scattering Signature of Fluid Reservoirs and Tectonic Interactions in the Central-Southern Apennines (Italy). *Geophysical Research Letters*, 50, e2023GL103132, IF: 5.58. DOI.
54. Howcutt S., M. Spagnolo M., B. R. Rea, J. Jaszewski, I. Barr, D. Coppola, **L. De Siena**, T. Girona, A. Gomez-Patron, D. Mullan and M. E. Pritchard (2023). Icy thermometers: quantifying the impact of volcanic heat on glacier elevation. *Geology*, accepted for publication, IF: 6.32. DOI.
53. *Magrini F.*, E. Kästle, S. Pilia, N. Rawlinson, and **L. De Siena** (2023). A new shear-velocity model of continental Australia based on multi-scale surface-wave tomography. *Journal of Geophysical Research: Solid Earth*, 128, e2023JB026688, IF: 4.39. DOI.

52. Gabrielli S., A. Akinci, **L. De Siena**, M. Buttinelli, F. Maesano, and R. Maffucci (2023). Scattering attenuation images of the control of thrusts and fluid overpressure on the 2016-17 Central Italy seismic sequence. *Geophysical Research Letters*, 50, e2023GL103132, IF: 5.58. DOI.
51. Borleanu F., L. Petrescu, I. Seghedi, C. Thomas, **L. De Siena** (2023). The seismic attenuation signature of collisional orogens and sedimentary basins within the Carpathian Orogen *Global and Planetary Change*, 223, 104093, IF: 4.956 DOI.
50. *Nardoni C.*, **L. De Siena**, F. Magrini, F. Cammarano, T. Maeda, E. Mattei (2023). Earthquake Characteristics and Structural Properties of the Southern Tyrrhenian Basin from Full Seismic Wave Simulations. *Surveys in Geophysics*, 1-21. IF: 7.965 DOI.
49. *King T.*, **L. De Siena**, *Y. Zhang*, N. Nakata, P. Benson, S. Vinciguerra (2023). Mapping Faults in the Laboratory with Seismic Scattering 2: The Modelling Perspective *Geophysical Journal International*, 234(3), 1024-1031. IF: 3.35 DOI.
- 2022**
48. *King T.*, **L. De Siena**, P. Benson, S. Vinciguerra (2022). Mapping Faults in the Laboratory with Seismic Scattering 1: The Laboratory Perspective *Geophysical Journal International*, 232 (3), 1590-1599. IF: 3.35 DOI.
47. *Guardo R.*, **L. De Siena**, J. Prudencio and G. Ventura (2022). Imaging the absorbing feeding and eruptive pathways of Deception Island, Antarctica. *Geophysical Research Letters*, 49 (19), e2022GL099540, IF: 5.58 DOI.
46. *Di Martino, P.*, **L. De Siena** and N. Tisato (2022). Pore space topology controls ultrasonic waveforms in dry volcanic rocks. *Geophysical Research Letters*, 49 (18), e2022GL100310, IF: 5.58 DOI.
45. Reiss, M., **L. De Siena** and J. D. Muirhead (2022). The interconnected magmatic plumbing system of the Natron Rift. *Geophysical Research Letters*, 49 (15), e2022GL098922, IF: 5.58 DOI.
44. Gabrielli, S., A. Akinci, G. Ventura, F. Napolitano, E. Del Pezzo, and **L. De Siena** (2022). Fast-Changes in Seismic Attenuation of the Upper Crust due to Fracturing and Fluid Migration: the 2016-2017 Central Italy Seismic Sequence. *Frontiers in Earth Science*, 10, 909698. IF: 3.23 DOI.

43. *Guardo, R., L. De Siena* (2022). Semi-automated inversion-specific data selection for volcano tomography. *Frontiers in Earth Science*, 10, 849152. IF: 3.23 DOI.
42. *Di Martino, P., L. De Siena, V. Serlenga, G. De Landro* (2022). Reconstructing hydrothermal fluid pathways and storage at the Solfatara crater (Southern Italy) using seismic scattering and absorption. *Frontiers in Earth Science*, 10, 852510. IF: 3.23 DOI.
41. Bianco, F., P. Capuano, E. Del Pezzo, **L. De Siena**, N. Maercklin, G. Russo, M. Vassallo, J. Virieux, and A. Zollo (2022). Seismic and Gravity Structure of the Campi Flegrei Caldera, Italy. *Campi Flegrei*, 55-94. G. Orsi, M. D' Antonio, L. Civetta, Eds., *Active Volcanoes of the World* series, Springer. DOI

2021

40. Petrosino S. and **L. De Siena** (2021). Fluid migrations and volcanic earthquakes from depolarized ambient noise. *Nature: Communications*, 12, 6656. IF: 14.9 DOI
39. *Nardoni, C., L. De Siena, F. Cammarano, F. Magrini, E. Mattei* (2021). Modelling regional-scale attenuation across Italy and the Tyrrhenian Sea. *Physics of the Earth and Planetary Interior*, 318, 106764. IF: 2.46 DOI.
38. *Di Martino-Perez, P., L. De Siena, D. Healy, S. Vialle* (2021). Petro-mineralogical controls on coda attenuation in volcanic rock samples. *Geophysical Journal International*, 226 (1), 1858-1872. IF: 3.35 DOI.
37. *King, T., S. Vinciguerra, J. Burgess, P. Benson, L. De Siena* (2021). Source mechanisms of laboratory earthquakes during fault nucleation and formation. *Journal of Geophysical Research: Solid Earth*, 126 (5), e2020JB021059. IF: 3.59 DOI
36. *Sketsiou, P., L. De Siena, S. Gabrielli, F. Napolitano*, (2021). 3D attenuation image of fluid storage and tectonic interactions across the Pollino fault network. *Geophysical Journal International*, 226 (1), 536-547. IF: 3.35 DOI.
35. *Akande, W. G., Q. Gan, D. Cornwell, L. De Siena* (2021). Thermo-Hydro-Mechanical Model and Caprock Deformation Explain the Onset of an On-going Seismo-volcanic Unrest. *Journal of Geophysical Research: Solid Earth*, 126, e2020JB020449. IF: 3.59 DOI.

2020

34. *King T., P. Benson, L. De Siena, S. Vinciguerra* (2020). Acoustic Emission Waveform Picking with Time Delay Neural Networks During Rock Deformation Laboratory Experiments. *Seismological Research Letters*, 92(2A), 923-932. IF: 3.46 DOI.

33. **Guardo R., L. De Siena, C. Draideme** (2020). Mt. Etna feeding system and sliding flank: a new 3D image from earthquakes distribution in a customisable GIS. *Frontiers in Earth Science*,8, 474. IF: 2.63 DOI.
32. **Gabrielli S., M. Spagnolo, L. De Siena** (2020). Geomorphology and surface geology of Mount St. Helens volcano. *Journal of Maps*,16:2, 585-594. IF: 1.50
31. **Zenonos A., L. De Siena, S. Widiantoro, N. Rawlinson** (2020). Direct inversion of S-P differential arrival-times for Vp/Vs ratio in SE Asia. *Journal of Geophysical Research: Solid Earth*, 125(5), e2019JB019152. IF: 3.59 DOI.
30. **Gabrielli S., L. De Siena, Napolitano F., E. Del Pezzo** (2020). Understanding seismic path biases and magmatic activity at Mount St. Helens volcano before its 2004 eruption. *Geophysical Journal International*, 222(1) 169-188. IF: 2.53 DOI.
29. **Napolitano F., L. De Siena, A. Gervasi, I. Guerra, R. Scarpa, M. La Rocca** (2020). Scattering and absorption imaging of a highly fractured fluid-filled seismogenetic volume in a region of slow deformation. *Geoscience Frontiers*. 11(3) 989-998. IF: 4.24 DOI.
28. **Oppo, D., L. De Siena, D. B. Kemp.** (2020). A record of seafloor methane seepage across the last 150 million years. *Scientific Reports: Nature Journals* 10.1: 1-12 IF: 4.1 DOI.
27. **Sketsiou P., F. Napolitano, A. Zenonos, L. De Siena,** (2020). New insights into seismic absorption imaging. *Physics of the Earth and Planetary Interiors*, 298, 106337. IF: 2.46 DOI.
- 2019**
26. **Pepe S., L. De Siena, Barone A., Castaldo R., D Auria L., Manzo M., Casu F., Fedi M., Lanari R, Bianco F. and Tizzani P.** (2019). Volcanic structures investigation through SAR and seismic interferometric methods: the 2011-2013 Campi Flegrei unrest episode. *Remote Sensing of Environment*, 134, 111440. IF: 8.89
25. **Akande, W. G., L. De Siena, Q. Gan** (2019). Three-dimensional kernel-based coda attenuation imaging of caldera structures controlling the 1982-84 Campi Flegrei unrest. *Journal of Volcanology and Geothermal Research* 381, 273-283. IF: 3.35
24. **Zenonos A., L. De Siena, S. Widiantoro, N. Rawlinson** (2019). P- and S- wave travel time tomography of the SE Asia-Australia collision zone. *Physics of the Earth and Planetary Interior*, 293, 106267. IF: 2.46

2018

23. **De Siena, L.**, *C. Sammarco*, D. G. Cornwell, M. La Rocca, F. Bianco, L. Zaccarelli, H. Nakahara (2018). Ambient seismic noise image of the structurally-controlled heat and fluid feeder pathway at Campi Flegrei caldera. *Geophysical Research Letters* 45.13 (2018): 6428-6436. IF: 4.4
22. Del Pezzo, E., De La Torre, A., Bianco, F., Ibanez, J., Gabrielli, S., and **De Siena, L.** (2018). Numerically Calculated 3D Space-Weighting Functions to Image Crustal Volcanic Structures Using Diffuse Coda Waves. *Geosciences*, 8(5), 175. IF: 1.82
21. Barr I. D., C. M. Lynch, D. Mullan, **L. De Siena**, M. Spagnolo, 2018. Volcanic impacts on modern glaciers: a global synthesis. *Earth-Science Reviews* 182, pp. 186-203. IF: 9.54
20. Garcia-Yeguas A., A. Sanchez-Alzola, **L. De Siena**, J. Prudencio, A. Diaz-Moreno, J. M. Ibanez, 2018. Scattering images from autocorrelation functions of P-wave seismic velocity images: the case of Tenerife Island (Canary Islands, Spain). *Bulletin of Volcanology* 80.3: 24. IF: 2.32

2017

19. *King T.*, P. Benson, **L. De Siena** and S. Vinciguerra, 2017. Investigating the Apparent Seismic Diffusivity of Near-Receiver Geology at Mount St. Helens Volcano, USA *Geosciences* 7.4, 130. IF: 1.82
18. *Guardo R.* and **L. De Siena**, 2017. Integrating ambient noise with GIS for a new perspective on volcano imaging and monitoring: The case study of Mt. Etna. *Journal of Volcanology and Geothermal Research* 347, pp. 397-407. IF: 3.35
17. **De Siena, L.**, Giovanni Chiodini, Giuseppe Vilardo, Edoardo Del Pezzo, Mario Castellano, Simona Colombelli, Nicola Tisato, and Guido Ventura, 2017. Source and dynamics of a volcanic caldera unrest: Campi Flegrei, 1983–84. *Scientific reports: Nature Journals* 7, 8099. IF: 4.52
16. Chiodini, G., J. Selva, E. Del Pezzo, D. Marsan, **L. De Siena**, L. D Áuria, F. Bianco et al., 2017. Clues on the origin of post-2000 earthquakes at Campi Flegrei caldera (Italy). *Scientific reports: Nature Journals* 7, 4472. IF: 4.52
15. Borleanu, F., **De Siena, L.**, Thomas, C., Popa, M., and Radulian, M., 2017. Seismic scattering and absorption mapping from intermediate-depth earthquakes reveals complex tectonic interactions acting in the Vrancea region and surroundings (Romania). *Tectonophysics*, 706–707, pp. 129-142. IF: 3.01
14. **De Siena L.**, A. Amoruso, E. Del Pezzo, *Z. Wakeford*, M. Castellano, L. Crescentini, 2017. Space-weighted seismic attenuation mapping of the aseismic source of Campi Flegrei 1983–84 unrest. *Geophysical Research Letters*, 44.4 pp. 1740-1748. IF: 4.4

13. *Rizzo R.*, E., D. Healy, and **L. De Siena**, 2017. Benefits of maximum likelihood estimators for fracture attribute analysis: Implications for permeability and up-scaling. *Journal of Structural Geology*, 95, pp. 17-31. IF: 3.08

2006-2016

12. **De Siena L.**, Calvet, M., *Watson, K.J.*, Jonkers, A.R.T. and Thomas, C., 2016. Seismic scattering and absorption mapping of debris flows, feeding paths, and tectonic units at Mount St. Helens volcano. *Earth and Planetary Science Letters*, 442, pp.21-31. IF: 4.64
11. Del Pezzo, E., J. M. Ibanez, I. Prudencio, F. Bianco, **L. De Siena**, 2016. Absorption and Scattering 2D Volcano Images from Numerically Calculated Space-weighting functions. *Geophysical Journal International*, 206 (2): 742-756. IF: 2.5
10. *Prudencio J.*, **L. De Siena**, J. M. Ibanez, E. Del Pezzo, A. Garcia-Yeguas, A. Diaz-Moreno, 2015a. The 3D Attenuation Structure of Deception Island (Antarctica). *Surveys in Geophysics*, 36 (3), 371-390, doi:10.1007/s10712-015-9322-6
9. *Prudencio J.*, J. M. Ibanez, E. Del Pezzo, J. Martí, A. Garcia-Yeguas, **L. De Siena**, 2015b. 3D Attenuation Tomography of the Volcanic Island of Tenerife (Canary Islands). *Surveys in Geophysics*, 36(5), pp. 693-716.
8. **De Siena L.**, C. Thomas, G. Waite, S. Moran, and S. Klemme, 2014b. Attenuation and scattering tomography of the deep plumbing system of Mount St. Helens. *Journal of Geophysical Research: Solid Earth*, 119, 8223-8238.
7. **De Siena L.**, C. Thomas, and R. Aster, 2014a. Multi scale reasonable attenuation tomography analysis (MuRAT): an imaging algorithm designed for volcanic regions. *Journal of Volcanology and Geothermal Research*, 277, 22-35
6. **De Siena L.**, E. Del Pezzo, C. Thomas, A. Curtis and L. Margerin, 2013. Seismic energy envelopes in volcanic media: in need of boundary conditions. *Geophysical Journal International*, 192 (1), 326-345.
5. **De Siena L.**, E. Del Pezzo and F. Bianco, 2011. A scattering image of Campi Flegrei from the auto correlation functions of velocity tomograms. *Geophysical Journal International*, 184 (3), 1304 -1310.
4. **De Siena L.**, E. Del Pezzo, F Bianco, 2010. Seismic attenuation imaging of Campi Flegrei: Evidence of gas reservoirs, hydrothermal basins, and feeding systems. *Journal of Geophysical Research: Solid Earth* 115, B09312, 18 pp. doi:10.1029/2009JB006938.

3. **De Siena L.**, E. Del Pezzo, F. Bianco and A. Tramelli, 2009. Multiple resolution seismic attenuation imaging at Mt. Vesuvius. *Physics of the Earth and Plan. Interior*, vol 173, 17-32.
2. Petrosino S., **L. De Siena**, E. Del Pezzo, 2008. Recalibration of the Magnitude Scales at Campi Flegrei, Italy, on the Basis of Measured Path and Site and Transfer Functions. *Bulletin of the Seismological Society of America*, vol. 98, pag. 1964-1974.
1. Del Pezzo E., F. Bianco, **L. De Siena**, A. Zollo, 2006. Small scale shallow attenuation structure at Mt. Vesuvius, Italy. *Physics of the Earth and Planetary Interior*, vol. 157, pag. 257-268.

Funded projects as PI

2019-2024

1. **Earth Telescope, Research Line: SAKURA** - 2M€(Istituto Nazionale di Geofisica e Vulcanologia - International call - 2025-2027). **Role: External Lead PI**
2. **A High-Performance Computing Approach to Physics-Based Seismic Hazard Analysis** - 75 k€(Istituto Nazionale di Geofisica e Vulcanologia - Competitive PhD Bursary, 40th cycle - 2024-2027). **Role:PI**
3. **Risposta geofisica a processi geodinamici: applicazione ai Campi Flegrei (RESIGNAL)** - 75 k€(Fondazione Cariplo-CDP - 2024-2025). **Role:PI**
4. **A combined imaging and modelling approach to understand magmatic systems across the SE Asia-Australia collision zone** - 232 k€(DFG, Standard Grant - 2021-2023). **Role:PI**
5. **TeMAS - Terrestrial Magmatic Systems Research Platform** - 500 k€(JGU Mainz - 2019-2023). **Role:Leader of the Mainz Seismology group**
6. **MODEL - Mainz Institute of Multiscale Modeling** - 800 k€(Exzellenzproject im Rahmen der Forschungsinitiative des Landes Rheinland-Pfalz - 2019- 2023). **Role:Co-leader of the Mainz Geophysics group**

Before 2018

7. **SAGES PEER and PECRE awards** - 5 k£(Scottish Alliance for Geosciences, Environment and Society - 2018-2019)
8. **Petroleum Technology Development fund** - PhD studentship, 3 years + 10k£- 2018-2021)
9. **Aberdeen-Curtin Alliance** - three year PhD studentship + 5k£for research expenses - 2018-2021)
10. **NERC CDT Oil and Gas** - four year PhD studentship + 20k£for research expenses - 2016-2020)
11. **Elphinstone Scholarship** - 6 months PhD studentship + 6k£for research expenses - 2016-2019)
12. **School of Geosciences Scholarship** - wave of tuition + 6k£for research expenses - 2016-2019)
13. **School of Geosciences Scholarship** - wave of tuition + 6k£for research expenses - 2016-2019)
14. **School of Geosciences Scholarship** - wave of tuition + 6k£for research expenses - 2016-2019)
15. **VALIDATE forum - Monitoring volcanoes' interaction with diverse Earth and human environments** - 3 k£(Scottish Alliance for Geosciences, Environment and Society - 2016-2019)
16. **JSPS Invitational Fellowship** - 10 k£(Japan Society for the Promotion of Science - 2016-2017)

17. **EU TIDES COST Award** - 2 k£(EU - 2016-2017)
18. **Royal Society of Edinburgh - Accademia dei Lincei Travel Grant** - 2 k£(EU - 2016-2017)

Postdocs and theses supervised

Post docs

- **Chiara Nardoni** - 2024-2028: *Risposta geofisica a processi geodinamici: applicazione ai Campi Flegrei (RESIGNAL) and SAKURA Research Line, Earth Telescope.*
- **Fabrizio Magrini** - 2021-2023: *A combined imaging and modelling approach to understand magmatic systems across the SE Asia-Australia collision zone.* - Now at ANU, Australia.

PhD, Lead supervision, ongoing:

- **Yi Zhang**, Mainz - 2020-2024;
- **Chiara Saturnino**, Bologna - 2024-2027;

PhD, co-supervision, ongoing:

- **Michelle Bensing**, University of Turin, Italy, 2020-2025.
- **Gaia Caporale**, University of Chieti, Italy 2024-2027.

PhD - to completion

- **Donato Talone**, University of Chieti, Italy 2020-2023 - co-supervision abroad. Today: post-doc at UniChieti
- **Chiara Nardoni**, University of Rome, Italy 2019-2022 - co-supervision abroad. Today: post-doc at UniBO.
- **Pilar Di Martino-Perez**, Aberdeen -2018-2022 - lead supervision. Today: Geosolution Geophysicist at Schlumberger, Italy.
- **Panayota Skietsou**, Aberdeen -2016-2022 - lead supervision. Today: Scientific Consultant at Adelard, NCC Group, London, UK.
- **Waheed Akande**, Aberdeen - 2018-2021 - lead supervision. Today: Department of Geology, Federal University of Technology, Minna, Nigeria.
- **Roberto Guardo**, University of Rio Negro, Argentina - 2015-2020 - lead supervision. Today: Post-doc at INGV - Catania (Italy).
- **Simona Gabrielli**, Aberdeen - 2016-2020 - lead supervision. Today: post-doc at INGV-Rome (Italy).

- **Aristides Zenonos**, Aberdeen - 2017-2020 - co-supervision. Today: Data Scientist at Ebiquity plc, London (UK).
- **Ferdinando Napolitano**, University of Salerno 2018-2020- co-supervision abroad. Today: post-doc at the University of Salerno (Italy).
- **Thomas King**, University of Torino, Italy, 2017-2020 - co-supervisor abroad. Today: post-doc at University of Birmingham (Italy).
- **Roberto Emanuele Rizzo**, Aberdeen 2015-2018 - co-supervision. Today: Assistant Professor at University of Utrecht (the Netherlands).
- **Janire Prudencio**, University of Granada, 2010-2013 - co-supervisor abroad. Today: Assistant Professor at University of Granada (Spain).

Master and Bachelor

- **Rachit Goutam**, BsC and MSc in Mainz. Today: PhD at Ineris, France.
- **Elisabeth Walter**, BSc in Mainz. Today: MSc at KTH, Sweden.
- **Saskia Neugebauer**, BSc in Mainz.
- **Carlos Colombo**, MsC in Aberdeen 2018. Today: Researcher at E.ON Aachen, Germany.
- **Pan Yaocen**, MsC in Aberdeen 2016. Today: post-doc in Uppsala, Sweden.
- **Kathleen Asena** MsC in Aberdeen 2016. Today: researcher at National Oil Corporation of Kenya
- **Martina Guzavina** BsC in Münster 2014. Today: Automation Solutions Developer at UBS, Zurich;
- **Laura Schmidt**, BsC in Münster 2014;
- **Carina Häger**, BsC and MsC in Muenster 2013-2015. Today: Data Scientist, REWE Group;
- **Katrin Löer**, MsC in Münster 2011. Today: Assistant Professor at the University of Delft;

Teaching and Institutional Duties

2023-today

- Coordination and teaching: **Seismology I & II** MSc - *Physics of the Earth System*;
- Teaching: **Geophysical Inverse Problems** MSc - *Physics of the Earth System*;
- Coordination and teaching: **Physics I** MSc - *BSc in Environmental Science*;

JGU Mainz - 2019-2023

- **Program Coordination** MSc - *Dynamics of the Lithosphere*;
- **Course Coordination and delivery** MSc - *Geodynamics*;
- **Course Coordination and delivery** BSc Physics and Earth Sciences - *Introduction to Geophysics*;
- **Delivery** BSc Physics and Earth Sciences - *Geostatistics*;

University of Aberdeen - 2014-2019

- **University of Aberdeen EU Advisory Board member, Erasmus coordinator, and Member of the Athena Swan committee** for equality in Academia, School of Geosciences.
- **Course coordination and delivery** of *Inversion Problem and Statistics*;
- **Course coordination and delivery** of *Time series analysis and signal processing*;
- **Delivery** of *Restless Vulcan*;
- **Delivery** of *Earth through Geological Time*.

PhD Examiner experience

- **Jifei Han**, degree in Geophysics, University of Cambridge, UK, 2024.
- **Nongmaithem Menaka Chanu**: degree in Geosciences, Indian Institute of Technology, 2023.
- **Apsara Sharma Dhakal**: degree in Geosciences, University of Padova, 2023.
- **Ilya Sychev**: degree in Geosciences, Russian Academy of Sciences, 2021.
- **Omry Volk**, degree in Geophysics, University of Cambridge, UK, 2021.
- **Colin Hogg**, degree in Geophysics, University of Frankfurt, Germany, 2020.

- **Georg Reuber**, degree in Geophysics, Johannes Gutenberg Mainz, Germany, 2020.
- **Elvira Papaleo**, degree in Geophysics, University of Aberdeen, UK, 2017.
- **Janire Prudencio**, degree in Geophysics, University of Granada, Spain, 2013.