

Curriculum Vitae

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Dr. Jonas Preine (he/him)
Woods Hole Oceanographic Institution, US
Marine Geophysicist | Volcanologist
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RESEARCH STATEMENT

My research investigates the processes that generate submarine geohazards in volcanic and tectonic environments, with a focus on explosive eruptions, mass-wasting events, and associated tsunami risks. I integrate multiscale geophysical imaging, core-log-seismic integration, and geochemical analysis to reconstruct eruptive dynamics and assess hazard potential in regions where direct observations are limited but societal relevance is high.

KEY RESEARCH CONTRIBUTIONS

- **Led seismic-to-core integration for IODP Expedition 398**, uncovering previously unrecognised explosive eruptions, volcano-tectonic interactions, and redefining the volcanic-hazard model for the Aegean.
- **First author of seven peer-reviewed publications** (e.g. *Nature Geoscience*, *Geology*, *Tectonics*) with three additional first-author manuscripts in revision, and co-author on 17 published papers plus eight more currently under review or in revision.
- **Chief or co-chief scientist and participant in 20+ international expeditions**, across the Mediterranean, Atlantic, Red Sea, Ross Sea, and West Pacific, leading seismic acquisition, sediment coring, and hazard-focused investigations, totaling >19 months at sea.
- **Award-winning science communicator**, KlarText Prize laureate; featured in *National Geographic*, major European media, and the documentary *The Santorini Code*.

EDUCATION

PhD Geophysics <i>Institute of Geophysics, University of Hamburg</i> Grade: Magna cum laude (1.0)	Hamburg, Germany 2020-23
MSc Geophysics <i>Institute of Geophysics, University of Hamburg</i> Grade: Distinction (1.0)	Hamburg, Germany 2016-19
ERASMUS Exchange Semester <i>Faculty of Earth Science, University of Iceland / Háskóli Íslands</i>	Reykjavik, Iceland 2017
BSc Geophysics & Oceanography <i>Institute of Geophysics, University of Hamburg</i> Grade: Excellent (1.8)	Hamburg, Germany 2013-16

EMPLOYMENT

Postdoctoral Scholar (currently) <i>Woods Hole Oceanographic Institution</i>	Woods Hole, Ma, USA 2024-26
Postdoctoral Researcher <i>Institute of Geophysics, University of Hamburg</i>	Hamburg, Germany 2023-24
Research Assistant <i>Institute of Geophysics, University of Hamburg</i>	Hamburg, Germany 2016-2019

FIRST AUTHOR PUBLICATIONS (published/accepted)

1. Preine, J., Augustin, N., Mitchell, N., van der Zwan, F., Wölfl, A., ..., Hübscher, C. (2025). Tracing the Neovolcanic zone along the sediment-covered regions of the Red Sea Rift. **Scientific Reports**. 10.1038/s41598-025-89332-2.
2. Preine, J., Crutchley, G., Hübscher, C., Beethe, S., McIntosh, I., ..., Mateo, Z. (2025). Core-seismic integration and time-depth relationships at IODP Expedition 398 Hellenic Arc Volcanic Field Sites. **Proceedings of IODP: Scientific Results**.
3. Preine, J., Karstens, J., Hübscher, C., Nomikou, P., Schmid, F., Crutchley, G. J., Druitt, T., Papanikolaou, D. (2022). Spatio-temporal evolution of the Christiana-Santorini-Kolumbo volcanic field, Aegean Sea. **Geology**. 10.1130/G49167.1. Recognized with the Günter Bock Award.

4. Preine, J., Hübscher, C., Karstens, J., Nomikou, P. (2022). Volcano-Tectonic Evolution of the Christiana-Santorini-Kolumbo Rift Zone. **Tectonics**. 10.1029/ 2022TC007524
5. Preine, J., Karstens, J., Hübscher, C., Crutchley, G. J., Druitt, T. H., Schmid, F., & Nomikou, P. (2022). The Hidden Giant: How a rift pulse triggered a cascade of sector collapses and voluminous secondary mass-transport events in the early evolution of Santorini. **Basin Research**. 10.1111/bre.12667. Honoured with the Robert Mitchum Award.
6. Preine, J., Schwarz, B., Bauer, A., Hübscher, C. (2020). When there is no offset: A demonstration of seismic diffraction imaging and depth-velocity model building in the southern Aegean Sea. **JGR Solid Earth**, 10.1029/2020JB019961
7. Preine, J., Naber, K., Koopmann, A. (2013). Microplastic in der Nordsee - Untersuchung von Plastikmüll in der Nordsee mit einem selbstgebautes Manta-Trawl. **Junge Wissenschaft** 98, pp. 42- 51.

FIRST AUTHOR PUBLICATIONS (In Review/Revision/Submitted)

8. Preine et al. (In Revision). Volcano-Tectonic Coupling at the Christiana-Santorini-Kolumbo Volcanic Field. **Communications Earth & Environment**.
9. Preine et al. (In Revision). Signatures of Explosive Submarine Volcanism Along the Northern Reykjanes Ridge. **Communications Earth & Environment**.
10. Preine et al. (In Revision). Spatio-temporal evolution of the Kolumbo Volcanic Chain and its connection to the volcanic plumbing system of Santorini. **G-Cubed**.

CO-AUTHOR PUBLICATIONS (published/accepted)

11. Manga, M., Tominaga, M., **Preine, J.**, Ronge, T., Beethe, S., ..., Yamamoto, Y., Low heat flow in the Anydros Basin, Aegean Sea, recorded by deep subsurface temperatures. In Press. **Geophysical Research Letters**.
12. Papanikolaou, D., Nomikou, P., Lampridou, D., **Preine, J.**, Litsas, D., Tsaparas, Y., ... & Huebscher, C. (2025). Active faulting in Samos Basin, Eastern Aegean Sea, Greece and paleogeographic implications. **Tectonophysics**, 905, 230724.
13. Druitt, T., Kutterolf, S., Hübscher, C., Nomikou, P., **Preine, J.**, Gertisser, R., ..., Lee, H. (2024). Giant offshore pumice deposit records a shallow submarine explosive eruption of ancestral Santorini. Accepted. **Communications Earth and Environment** 5, 24. 10.1038/s43247-023-01171-z
14. Micallef, A., Barreca, G., Hübscher, C., Camerlenghi, A., Carling, P., Abril Hernandez, J. M., ... & Caruso, A. (2024). Land-to-sea indicators of the Zanclean megaflood. **Communications Earth and Environment** 5(1), 794. 10.1038/s43247-024-01972-w
15. Haimerl, B., Seidel, E., Gehrmann, A., **Preine, J.**, Schmidt, M. C., Hübscher, C. (2024). Land-to-sea mapping of the glacial erosion unconformity reveals evolution of the Jasmund Glacitectonic Complex East of Rügen Island (SW Baltic Sea). **Geophysical Research Letters**.
16. Mitchell, N. C., Ligi, M., **Preine, J.**, Liebrand, D., Ali, M., & Decarlis, A. (2024). Contourite-like deposits suggest stronger-than-present circulation in the Plio-Pleistocene Red Sea. **Global and Planetary Change**, 10.1016/j.gloplacha.2024.104527
17. Ronge, T., Kutterolf, S., Fernandez-Perez, T., Manga, M., Metcalfe, A., **Preine, J.**, ..., Yamamoto, Y. (2024). Data report: X-ray fluorescence scanning of drill sites U1591 and U1599, IODP Expedition 398, Hellenic Arc Volcanic Field. **Proceedings of the Integrated Ocean Drilling Program: Scientific Results**.
18. Karstens, J., **Preine, J.**, Crutchley, G., van der Bilt, W. G. M., Hooft, E. E. E., Druitt, T. H., Schmid, F., Cederstrøm, J. M., Hübscher, C., Nomikou, P., Carey, S., Kühn, M., Elger, J., Berndt, C. (2023). Revised Minoan eruption volume as benchmark for large volcanic eruptions. **Nature Communications**. 14(1), 2497. 10.1038/s41467-023-38176
19. Karstens, J., Crutchley, G. J., Hansteen, T., **Preine, J.**, Carey, S., Elger, J., Kühn, M., Nomikou, P., Schmid, F., Dalla Valle, G., Kelfoun, K., Berndt, C. Set up to fail – cascading events during the 1650 tsunamigenic eruption of Kolumbo volcano. (2023). **Nature Communications** 14(1), 10.1038/s41467-023-42261-y

20. Karstens, J., **Preine, J.**, Carey, S., Bell, K. L., Nomikou, P., Hübscher, C., Lampridou, D., Urlaub, M. (2023). Formation of undulating seafloor bedforms during the Minoan eruption and their implications for eruption dynamics and slope stability at Santorini. **Earth and Planetary Science Letters**. 10.1016/j.epsl.2023.118215
21. Mitchell, N., **Preine, J.**, Okwokwo, O., Izzeldin, A., Augustin, N., Stewart, I. The ocean-continent transition in the western central Red Sea. (2023). The ocean-continent transition in the Western Central Red Sea. **Journal of African Earth Sciences**. 10.1016/j.jafrearsci.2023.105093 [Corrigendum 2023, 10.1016/j.jafrearsci.2024.105217]
22. Crutchley, G. J., Karstens, J., **Preine, J.**, Hübscher, C., Fossen, H., & Kühn, M. (2023). Extensional faulting around Kolumbo Volcano, Aegean Sea-relationships between local stress fields, fault relay ramps and volcanism. **Tectonics**, e2023TC007951
23. Warwel, A., Hübscher, C., Hartge, M., Artschwager, M., Schäfer, W., **Preine, J.**, Häcker, T., Strehse, V., Lüdmann, T. (2023). The Paleozoic hydrocarbon system in the Gotland Basin (central Baltic Sea) leaks. **Earth and Space Science**. 10.1029/2023EA002883
24. Ahlrichs, N., Hübscher, C., Andersen, T. R., **Preine, J.**, Bogner, L., Schäfer, W. (2023). The Langeland Fault System revealed: Late Cretaceous inversion and neotectonics along an elevated basement block of the Ringkøbing-Fyn High at the transition between the North German and Norwegian Danish Basins. **Boreas**. 10.1111/bor.12614
25. Mitchell, N. C., Hernandez, K., **Preine, J.**, Ligi, M., Augustin, N., Izzeldin, A., & Hübscher, C. (2022). Early stage diapirism in the Red Sea deep-water evaporites: Origins and length-scales. **Tectonophysics**. 10.1016/j.tecto.2022.229331
26. Follmann, J., Van der Zwan, F., **Preine, J.**, Hübscher, C., Bousquet, R., Augustin, N. (2021). Gabbro discovery in Discovery Deep: First plutonic rock samples from the Red Sea Rift axis. **Frontiers in Earth Science - Petrology**. 10.3389/feart.2021.742815
27. Fahm, L., Hübscher, C., Warwel, A., **Preine, J.**, Huster, H. (2020). Misinterpretation of velocity pull-ups caused by high-velocity infill of tunnel valleys in the southern Baltic Sea. **Near Surface Geophysics**. 10.1002/nsg.12122.

CO-AUTHOR PUBLICATIONS (In Review/Revision/Submitted)

28. Isken, M., Karstens, J., Nomikou, P., Dahm, T., Rivalta, E., ..., **Preine, J.**, ..., Müller, D. Volcanic crisis reveals coupled magma system at Santorini and Kolumbo. In Review. **Nature**.
29. Tominaga, M., Panter, K., Berthod, C., Tivey, M., Wu, J.-N., **Preine, J.**, ... NBP25-01 shipboard science support staff. Where ice meets magma: subglacial explosive volcanism in the Ross Sea. In Review. **Nature Geoscience**.
30. Urlaub, M., Furst, S., Schindlbeck-Belo, J., Berndt, C., ..., **Preine, J.**, ..., Husrin, S. Sector collapse and debris avalanche exorcised the 1883 Krakatau disaster. In Review. **Nature**.
31. Metcalfe, A., Druitt, T., Pank, K., Kutterolf, S., **Preine, J.**, ..., Papanikolaou, D. Far-travelled Ash Megaturbidite Fed by Shoreline-crossing Pyroclastic Currents from a Large Explosive Volcanic Eruption. In Revision. **Science Advances**.
32. Manga, M., Wright, V., Cadena, T., McIntosh, I., **Preine, J.**, ..., Clarc, A. Contrasting seismic velocity and compaction of marine oozes and volcanoclastic deposits. In Revision. **G-Cubed**.
33. Metcalfe, A., Druitt, T., Pank, K., Kutterolf, S., **Preine, J.**, ..., Sternai, P. Tectonic Modulation of Caldera Volcanism on the South Aegean Island Arc. In Revision. **Earth and Planetary Science Letters**.
34. Tominaga, M., Tivey, M., Mark, H., Sagern, W., **Preine, J.** What really is the Jurassic Quiet Zone? In Review. **Geophysical Research Letters**.
35. Schmidt, M., Seidel, E., Hübscher, C., Haimerl, B., **Preine, J.**, Exploring the Outline of the Pre-Odra River System through Seismic Reflection Imaging, Offshore Rügen Island. In Review. **Boreas**.

AWARDS

KlarText Award Award for Science Communication to young researchers who have written an excellent doctoral thesis and crafted an article explaining to a non-scientific audience what they have done in their research.	Heidelberg, Germany 10/2024
Annette-Barthelt Award Award for young scientists in marine research for outstanding scientific theses in a sub-discipline of marine research in connection with a marine research expedition.	Kiel, Germany 03/2024
Bernd Rendel Award Award from the German Science Foundation (DFG) to geoscientists who have demonstrated great potential in their scientific career.	Berlin, Germany 09/2023
Robert Mitchum Award Award for the best paper published in the journal Basin Research.	Vienna, Austria 06/2023
Günter Bock Award Award for an outstanding scientific publication by a young geophysicist, granted by the German Geophysical Society.	Bremen, Germany 03/2023
Jugend Forscht (National Winner) First place at national level in the "Jugend Forscht" competition in the geosciences and space sciences category.	Erfurt, Germany 2012

FUNDING

ECORD Travel Grant 2,000 €	Nachikatsuura, Japan 03/2024
WHOI Postdoctoral Scholarship ~135,000 €	Woods Hole, Ma, USA 12/2023
ECORD Research Grant Award for Outstanding Early Career Researchers 1,600 €	Woods Hole, Ma, USA 10/2023
IAVCEI Travel Grant Springer Registration waiver for the COV11 conference. 250 €	Heraklion, Greece 05/2022
Deutschlandstipendium (Student Scholarship) Award for students with outstanding academic achievements and contributions to the university community. 7,200 €	Hamburg, Germany 2017-19

ACADEMIC SERVICE

Scientific Panel Membership IODP Science Evaluation Panel (SEP), Site Characterization	Since 2023
Reviewer - Journals: Scientific Reports, Geophysical Research Letters, JGR Solid Earth, Earth System Science Data, Earth and Space Science, Basin Research, Journal of Asian Earth Sciences - Proposals: Reviewer for CSRIO Marine National Facility (RV Investigator)	Since 2020
Session Convener - Session SM6.6 'Seismic Imaging of Volcanoes', EGU25 - Session SM6.5 'Seismic Imaging of Volcanoes', EGU24	04/2025 04/2024 03/2023

- Volcanology Session (VU-A), Annual Meeting of the German Geophysical Society (DGG)

Session Co-Convener

- A multidisciplinary perspective on past and present volcanism and volcanic hazards, EGU21

03/2021

Research Expeditions

RV Nathaniel B. Palmer NBBP25-01 Acquisition of ocean-bottom imagery, dredge samples, gravity cores, surface-towed magnetic data, heat flow probe measurements and onboard geophysical data along the Terror Rift <i>Co-Investigator</i>	Ross Sea, Antarctica 02-05/2025 10 Weeks
RV Sikuliaq SKQ202418S Acquisition of multichannel seismic and surface-towed magnetometer data along the Jurassic Quiet Zone, West Pacific <i>Co-Investigator</i>	Western Pacific 12/2024 4 Weeks
R/V ALKOR AL621 Acquisition of multichannel seismic and sediment echosounder data along the German Sector of the Baltic Sea <i>Chief Scientist</i>	Northern Atlantic 10/2024 2 Weeks
R/V METEOR M201 Acquisition of multichannel seismic data, Gravity Cores, and Dredge sampling offshore western Iceland <i>Head of seismic and magnetic data acquisition and processing, survey planning</i>	Northern Atlantic 06-07/2024 6 Weeks
R/V METEOR M199 Acquisition of multichannel seismic data along the Malta escarpment <i>Head of seismic data acquisition and processing, survey planning</i>	Mediterranean Sea 02-03/2024 3 Weeks
R/V ALKOR AL605 Acquisition of multichannel seismic data along the Pomeranian Bay <i>Deputy Head of Cruise, onboard teaching</i>	Baltic Sea 11/2023 2 Weeks
R/V SONNE SO299/2 Acquisition of MCS Reflection Seismic Data and Gravity Cores around the Krakatau Archipelago <i>Survey Planning, Seismic Data Acquisition, Sediment Coring</i>	Indian Ocean 08-09/2023 3 Weeks
D/V JOIDES Resolution IODP EXPEDITION 398: Hellenic Arc Volcanic Field <i>Stratigraphic Correlation, Core-Log-Seismic Integration, Physical Property Measurements</i>	Aegean Sea 12/2022 - 02/2023 9 Weeks
R/V METEOR M177 Acquisition of multichannel seismic and gravity data in the Gotland Basin <i>Deputy Head of Cruise</i>	Baltic Sea 10-11/2021 4 Weeks
R/V AEGEAN EXPLORER Acquisition of multichannel seismic data north of Samos <i>Deputy Head of Cruise</i>	Aegean Sea 09/2021 2 Weeks
R/V ALKOR AL562 Acquisition of multichannel seismic data in the Arkona Basin <i>Deputy Head of Cruise, onboard teaching</i>	Baltic Sea 08/2021 2 Weeks
R/V ALKOR AL545 Acquisition of multichannel seismic data east of Bornholm <i>Head of seismic data acquisition, onboard teaching</i>	Baltic Sea 09/2020 2 Weeks

R/V POSEIDON POS538

Acquisition of 2D and 3D multichannel seismic data at the Christiana-Santorini-Kolumbo Volcanic Field
Survey Planning, Acquisition, and Processing

Aegean Sea
 10/2019
 4 Weeks

R/V ALKOR AL526

Acquisition of multichannel seismic data west of Bornholm and east of Gotland
Head of seismic data acquisition, onboard teaching

Baltic Sea
 08-09/2019
 2 Weeks

R/V METEOR M152/2

Acquisition of multichannel and magnetic data at the Bathymetrists Seamounts.
Head of seismic and magnetic data acquisition and processing

Atlantic Ocean
 01-02/2019
 8 Weeks

R/V PELAGIA 64PE-445

Acquisition of multichannel and magnetic data at Inter-Trough zones of the Red Sea Rift
Head of seismic and magnetic data acquisition and processing

Red Sea
 08-09/2018
 4 Weeks

R/V METEOR M144/2

Acquisition of multichannel seismic data west of Sicily
Seismic data acquisition and processing

Mediterranean Sea
 01-02/2018
 3 Weeks

R/V OGS EXPLORA

Acquisition of multichannel along the Gloria Fault Zone
Seismic data acquisition and processing

Atlantic Ocean
 05-06/2017
 4 Weeks

R/V MARIA S. MERIAN MSM52

Acquisition of multichannel data in the Baltic Sea
Seismic data acquisition and processing

Baltic Sea
 03-04/2016
 4 Weeks

R/V ALKOR AL460

Acquisition of multichannel seismic data in the Skagerrak
Seismic data acquisition

North Sea
 07/2015
 2 Weeks

R/V ALDEBARAN

PLARIMAR Leg 2: Sampling for Microplastic in the Elbe River
Survey planning and water sampling

Northern Germany
 05/2014
 1 Week

R/V ALDEBARAN

PLARIMAR Leg 1: Sampling for Microplastic in Rivers and close to the shores of the North Sea
Survey planning and water sampling

North Sea
 09/2013
 1 Week

R/V ALDEBARAN

Sampling Microplastic in the North Sea between the coast and Helgoland
Survey planning and water sampling

North Sea
 07/2011
 1 Week

FIELDWORK**Sampling of Rafted Pumice on Folegandros Island**

Collection of rafted pumice clasts on the beaches of Folegandros Island

Folegandros, Greece
 05/2024
 2 days

Rock Sampling at Santorini and the Christiana Islands

Collection of lava, pumice, and ash samples from the stratigraphically oldest volcanic outcrops of the Christiana-Santorini-Kolumbo volcanic field

Santorini, Greece
 05/2022
 1 Week

RESEARCH VISITS & FORMAL DEBATES**IODP Expedition 398 Postcruise Meeting**

Presentation of first findings from IODP Expedition 398 and discussion of future research initiatives.

Santorini, Greece
 04/2024

Workshop on the Future of Scientific Ocean DrillingToward submission of drilling proposals for IODP³Nachikatsuura, Japan
03/2024**WOODS HOLE OCEANOGRAPHIC INSTITUTION**

Core-log-seismic integration and physical property analysis of IODP Expedition 398

Woods Hole, MA, USA
09-10/2023**International Ocean Discovery Program**

XRF Scanning of selected cores from IODP Expedition 398

College Station, TX, USA
05/2023**GEOMAR Helmholtz Centre for Ocean Research Kiel**

Core-Log-Seismic Integration for IODP Expedition 398 at the GEOMAR Core-Log-Seismic Integration Centre

Kiel, Germany
05-06/2023**German Science Council Evaluation**

Future goals of marine research. The necessity of (medium-sized) research vessels for the implementation of innovative, forward-looking projects

Kiel, Germany
11/2022**Environmental Protection and Safety Panel Meeting**

Presenting the Safety Review Report and Database for IODP Proposal 932

College Station, TX, USA
02/2020**Future Forum**

'Digitalisation as an Innovation Driver - Opportunities and Challenges' with German Federal President Frank-Walter Steinmeier

Berlin, Germany
05/2018**Future Forum**

'How should it look like, this country? Germany in 2036' with German Federal President Joachim Gauck

Berlin, Germany
10/2016**TRAINING/WORKSHOPS****Tephrochronostratigraphy and associated research of the Mediterranean**Kiel, Germany
04/2025**Oceanic Volcanism Workshop**Kiel, Germany
09/2023**GESEP School**

Basic insights and hands-on training on scientific drilling for early career scholars

Potsdam, Germany
11/2022**ECORD Summer School**

Downhole-logging for IODP Science

Virtual
09/2021**Core-Log Seismic Integration Workshop**

Organized by the Core-Log Seismic Integration Center at GEOMAR

Virtual
04/2021**DLR Graduate School**

Training courses for PhD candidates to acquire interdisciplinary scientific key competencies. Hosted by the German Aerospace Center

Cologne, Germany
2020-23

- Peer Reviewed Publishing (03/2020)
- Writing Readable Scientific Papers (11/2020)
- Effective Scientific Presentations (12/2020)
- Effective Reading (02/2021)
- Conflict Management and Negotiation Skills (03/2021)
- Grant Writing for Scientists (05/2021)
- Science Outreach (02/2022)
- Scientific Communication (04/2022)
- Logic and Reasoning (03/2023)

SUPERVISION**Co-Supervisor (University of Hamburg)**

BSc student Carina Dittmers: Seismo-stratigraphic interpretation of the Santorini-Anafi Basin since Middle Pleistocene

2022-23

BSc student Max Lackner: Reflection seismic study of the influence of lithology on glacial erosion in the Gotland Basin/Central Baltic Sea	2023
BSc student Lisa Ischebeck: Diffraction imaging as a tool for interpreting volcano-tectonic processes in seismic data	2023-24
BSc student Annalena Friedrich: Seismic Imaging of Intra-Plate Volcanoes from the Azores Plateau	2023-24

TEACHING

Teaching Assistant	Hamburg, Germany
• Applied Geophysics – seismic methods (2 nd year)	2023/24
Student Tutor	Hamburg, Germany
• Physics 2 – Electrodynamics and optics (1 st year)	2015
• Physics 1 – Mechanics, special relativity, and Thermodynamics (1 st year)	2015/16 & 2016/17
• Introduction to Geophysics (1 st year)	2016
• Applied Geophysics – non-seismic methods (2 nd year)	2017 & 2018
• Student Research cruise (2 nd year)	2018, 2019, 2020, 2023
• Geophysical Field Course (2 nd year)	2021, 2022

EXPERIENCE

Leadership on marine expeditions	Survey planning, expedition preparation, shift allocation and management, leading onboard seismic processing, mobilization and demobilization of survey equipment on vessels, conflict management
2D Seismic Data Acquisition	Deployment of long- and short-offset (digital and analog) streamers, handling of airguns and sparker sources
3D Seismic Data Acquisition:	Ultra-high-resolution 3D data acquisition with P-cable systems
Magnetic Data Acquisition	Survey planning, sensor deployment, watchkeeping management, data processing
Hydroacoustic Data Acquisition	Parasound & multibeam watchkeeping and data processing
Physical Property Measurements	P-wave, NGR, GRA density, and magnetic susceptibility measurements on whole-round cores; MAD measurements including water content, bulk density, grain density, and solid density
Marine Sediment Coring	Site planning, core handling & sampling
Marine Dredge Sampling	Site planning, Bridge communication, Rock processing
XRF Scanning	Avaatech XRF Core Scanner at IODP Gulf Coast Repository TX, USA
RAMAN Spectroscopy	Analyses of ultramafic rocks and thin section photomosaics

SOFTWARE SKILLS

• Seismic Processing:	Reveal, VISTA, Seismic Unix
• Seismic Interpretation:	KINGDOM, Petrel
• Core-Seismic Integration:	HampsonRussel
• Geographic Information System:	QGIS
• Stratigraphic Correlation:	Correlator
• Structural Modeling:	StructureSolver, Move
• Programming:	Matlab, Python

- Magnetic Data Acquisition: BOB
- Scientific Graphic Design: CorelDRAW, Inkscape
- Photography & Videography: Darktable, Lightroom, GIMP, Photoshop, Davinci Resolve

INVITED SEMINAR TALKS

Seafloor Explorer Seminar Series - University of Oxford	Online
Discovery of a major submarine eruption of Santorini in historic times	06/2025
University of Birmingham	Online
Results of IODP Expedition 398 to understand submarine volcanism	11/2024
Séminaires Géosciences Marines, IPGP	Paris, France
Uncovering the lost eruption of Santorini	05/2024
FB4 Seminar, GEOMAR	Kiel, Germany
IODP Expedition 398 reveals hazardous explosive behavior of the Kameni Volcano inside Santorini Caldera	04/2024
IAVCEI CoSV Webinar	Online
Rising from the ashes: scientific drilling sheds new light on the spatio-temporal evolution of the Kameni volcano inside the Santorini Caldera	02/2024
Geology and Geophysics Seminar, Oregon State University	Corvallis, OR, USA
From catastrophic caldera collapse to the emergence of a new volcano: New insights into Santorini Volcano, Greece	11/2023
Seminar Current Research Questions, University of Kiel	Kiel, Germany
Evolution of a volcano after catastrophic caldera collapse	11/2023
Earth Sciences Seminar, University of Oregon	Eugene, OR, USA
From catastrophic caldera collapse to the emergence of a new volcano: New insights into Santorini Volcano, Greece	10/2023
Department Seminar, Woods Hole Oceanographic Institute	Woods Hole, MA, USA
From catastrophic caldera collapse to the emergence of a new volcano: New insights into Santorini Volcano, Greece	10/2023

SEMINAR TALKS

2025 Summer Lecture Series	Woods Hole, MA, USA
Widespread Explosive Volcanism at the Northern Reykjanes Ridge	06/2025
Seminar Applied Geophysics, University of Hamburg	Hamburg, Germany
This Rift is on Fire: Volcano-Tectonic Evolution of the Christiana-Santorini-Kolumbo volcanic field	11/2022

Outreach

<u>Documentaries</u>	
• K22 Film in association with ZDF, ARTE, and ZDF Studios. The Santorini Code. https://tinyurl.com/mpvuunbm	04/2024
<u>News Articles</u>	
• National Geographic. Santorini is at the center of a mystery: Why do earthquakes keep shaking the island? https://tinyurl.com/y4tk6y3y	02/2025

- Diepholzer Kreiszeitung. From school to the high seas: Dr. Jonas Preine researches marine volcanoes (German). 09/2024
<https://tinyurl.com/25ernxwf>
- National Geographic. The island of Santorini is hiding an explosive secret. 03/2024
<https://tinyurl.com/2ahtrpfr>
- LiveScience. The sea 'began to boil': Freak volcanic eruption of Santorini 1,300 years ago indicates huge blasts can occur during time of quiet. 03/2024
<https://tinyurl.com/4j9mt5ju>
- Frankfurter Allgemeine Zeitung (FAZ). Santorini is an island on a powder keg (German). 03/2024
<https://tinyurl.com/mwnbut76>
- Mitteldeutscher Rundfunk (MDR). Submarine volcanic eruption detected on Santorini (German). 03/2024
<https://tinyurl.com/d6bpfdpb>
- Tagesspiegel. Early warning for holiday destination: Medieval eruption of Santorini volcano caused the sea to boil (German). 03/2024
<https://tinyurl.com/4a4xm59m>
- Neue Züricher Zeitung (NZZ). A strong volcanic eruption can brew on Santorini at any time - the archipelago is not prepared for this (German). 03/2024
<https://tinyurl.com/5fvht7tn>
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- EKathimerini. New Volcanoes discovered hidden around Santorini 10/2021
- Diepholzer Kreiszeitung. "Danger: small particles in the water", 09/2013
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Magazine Articles

- DGG Rote Blätter. Career Interview. 05/2025
- DUZ Magazine. A researcher on the high seas (German) 10/2024
- P. M. Magazine. Scientists You Should Know (German) 01/2024
- P. M. Magazine. Drilling into Earth's history (German) 06/2023

Blog Articles

- First Weekly Report AL621, <https://tinyurl.com/mr32x486> 10/2024
- Behind the Paper blog article: 'Scientific ocean drilling in the Santorini caldera reveals a surprisingly large eruption in historic times', <https://tinyurl.com/3nsd5js3> 03/2024

- Nature (626, 242-243). Santorini's volcanic past: underwater clues reveal giant prehistoric eruption. 10.1038/d41586-024-00326-y 02/2024

Outreach Events

- Making Waves - Science Story Slam 06/2025
- From the school to the world - Honorary lecture at the Graf Friedrich School (Diepholz) about my career and the study of marine volcanoes 09/2024
- Geo-Show 'underground' - Live broadcast from the RV Sonne a show for students between the 7th to 9th grade. 08/2023
- Tracking volcanoes and earthquakes - Introduction to marine geophysics - University Open House. 10/2022 & 10/2021
- Hamburg Climate Week - Microplastic in the North Sea. 08/2013 & 09/2012

PUBLISHED REPORTS

1. **Preine, J.,** Seidel, E., Hartge, M., Friedrich, A., Ischebeck, L., ..., Wummel, D. (2024) Studierendenbericht Seepraktikum 2024 (UHH), Cruise No. AL621, 30.09.2024 - 11.10.2024, Kiel (Germany) - Kiel (Germany).
2. Augustin, N., Palgan, D., Hübscher, C., van der Zwan, F. M., Bariya, J., ..., Winter, S. Volcanism in the Vesturdjúp Basin - Flank Igneous System or Intraplate Volcanism Off-Shore Western Iceland. M201. Reykjavik (Iceland) - Praia da Vitoria (Azores, Portugal). (2024a). METEOR-Berichte, M177.
3. Druitt, T.H., Kutterolf, S., Ronge, T.A., Beethe, S., Bernard, A., ..., Yamamoto, Y. (2024a). Expedition 398 summary. In Druitt, T.H., Kutterolf, S., Ronge, T.A., and the Expedition 398 Scientists, Hellenic Arc Volcanic Field. Proceedings of the International Ocean Discovery Program, 398: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.398.101.2024>
4. Druitt, T.H., Kutterolf, S., Ronge, T.A., Beethe, S., Bernard, A., ..., Yamamoto, Y. (2024b). Site U1589. In Druitt, T.H., Kutterolf, S., Ronge, T.A., and the Expedition 398 Scientists, Hellenic Arc Volcanic Field. Proceedings of the International Ocean Discovery Program, 398: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.398.103.2024>
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8. Druitt, T.H., Kutterolf, S., Ronge, T.A., Beethe, S., Bernard, A., ..., Yamamoto, Y. (2024f). Site U1597. In Druitt, T.H., Kutterolf, S., Ronge, T.A., and the Expedition 398 Scientists, Hellenic Arc Volcanic Field. Proceedings of the International Ocean Discovery Program, 398: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.398.111.2024>
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15. Kutterolf, S., Druitt, T.H., Ronge, T.A., Beethe, S., Bernard, A, ..., Yamamoto, Y. (2024f). Site U1598. In Druitt, T.H., Kutterolf, S., Ronge, T.A., and the Expedition 398 Scientists, Hellenic Arc Volcanic Field. Proceedings of the International Ocean Discovery Program, 398: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.398.112.2024>
16. Kutterolf, S., Druitt, T.H., Ronge, T.A., Beethe, S., Bernard, A, ..., Yamamoto, Y. (2024g). Site U1600. In Druitt, T.H., Kutterolf, S., Ronge, T.A., and the Expedition 398 Scientists, Hellenic Arc Volcanic Field. Proceedings of the International Ocean Discovery Program, 398: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.398.114.2024>
15. Hübscher, C., Camerlenghi, A., Micallef, A., Affatati, A., Bennison, T., Bogner, L., ... & Winter, S. (2024) Erosional and depositional signatures of the Zanclean megaflood in the central Mediterranean Basin, Cruise No. M199, 25.02. - 11.03.2024, Catania (Italy) – Malaga.
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17. Druitt, T., Kutterolf, S., Ronge, T., and the Expedition 398 Scientists (2024). Expedition 398 Preliminary Report: Hellenic Arc Volcanic Field. International Ocean Discovery Program, 10.14379/iodp.pr.398.2024
18. Hübscher, C., Artschwager, M., Aster, M., Barbosa, I., Bogner, L., Häcker, T., ..., Winter, S. (2022). Geophysical investigation of the Paleozoic basement in the Gotland depression and its margins: Tectonics and reefs, hydrocarbon fluid escape and CO₂ storage potential, cruise No. M177, October 22 - November 18, 2021, Emden (Germany) - Emden (Germany). METEOR-Berichte, M177, 1-38. https://doi.org/10.48433/cr_m177
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20. Augustin, N., Mitchell, N. C., van der Zwan, F. M., Preine, J. (2019). RV Pelagia Fahrtbericht/Cruise Report 64PE-445: SALTAX: Geomorphology and geophysics of submarine salt flows in the Red Sea Rift, Limassol (Cyprus)-Safaga (Egypt), 27.08.-21.09. 2018.
21. Karstens, J., Crutchley, G., Elger, J., Kühn, M., Schmid, F., Dalla Valle, G., ... & Nomikou, P. (2020). R/V Poseidon Cruise Report 538-THESEUS Tsunami hazard of explosive submarine eruptions, 7th October-28th October 2019, Cartagena (Spain)-Heraklion (Greece).
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DATA PUBLICATIONS

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2. **Preine, J.**, Hübscher, C., Palgan, D., van der Zwan, F., Dittmers, C., ..., Augustin, N. (2024). Multichannel Seismic Reflection Data Across the Northern Reykjanes Ridge. ZENODO. Under embargo until 12/2025. 10.5281/zenodo.14500270
3. **Preine, J.**, Augustin, N., Mitchell, N., van der Zwan, F., Hübscher, C.. (2024). Multichannel Seismic Reflection Data from RV Pelagia during cruise 64PE-445 (SALTAX project). ZENODO. Under embargo until 05/2025. 10.5281/zenodo.13739386
4. Haimerl, B., Seidel, E., Gehrmann, A., **Preine, J.**, Schmidt, M., & Hübscher, C. (2024). GeoTIFF dataset for: Land-to-sea mapping of the glacial erosion unconformity reveals evolution of the Jasmund glaciectonic Complex East of rügen (SW Baltic Sea). Zenodo. 10.5281/zenodo.12739607
5. Karstens, J., **Preine, J.** (2023): 2D seismic reflection data from POSEIDON cruise POS538, offshore Santorini. PANGAEA. 1594/PANGAEA.956579
6. Warwel, A., Hübscher, C., Hartge, M., Artschwager, M., Schäfer, W., **Preine, J.**, et al. (2023a). 2D multichannel seismic reflection processed data (GI Gun working area dataset) of RV METEOR during cruise M177, Gotland Basin, Baltic Sea [Dataset]. PANGAEA. 10.1594/PANGAEA.957436
7. Warwel, A., Hübscher, C., Hartge, M., Artschwager, M., Schäfer, W., **Preine, J.**, et al. (2023b). Multibeam bathymetry processed data (Kongsberg EM710 working area dataset) of RV METEOR during cruise M177, Gotland Basin, Baltic Sea. [Dataset]. PANGAEA. 10.1594/PANGAEA.956740
8. Warwel, A., Hübscher, C., Hartge, M., Artschwager, M., Schäfer, W., **Preine, J.**, et al. (2023c). Sediment echosounder processed data (Atlas Parasound P70 working area dataset) of RV METEOR during cruise M177, Gotland Basin, Baltic Sea. [Dataset]. PANGAEA. 10.1594/PANGAEA.957422
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10. Hübscher, C. and **J. Preine**, (2022). Processed seismic profiles 02, 11, and 15 (SEG-Y format) across the Santorini-Amorgos Tectonic Zone from Poseidon cruise POS338 (2006). IEDA. 10.26022/IEDA/331028
11. Hübscher, C., **Preine, J.**; Schwarz, B. and A. Bauer, (2020). Processed seismic data for seismic line 11 across the Santorini-Amorgos Tectonic Zone from Poseidon cruise POS338 (2006). IEDA. 10.26022/IEDA/327525

CONFERENCE/WORKSHOP TALKS

1. **Preine, J.**, Hübscher, C., Palgan, D., van der Zwan, F., Dittmers, C., ..., Augustin, N. (2025). Widespread Surtseyan Volcanism at the Northern Reykjanes Ridge. MIT/WHOI Retreat. Cambridge, USA.
2. **Preine, J.**, Hübscher, C., Karstens, J., Expedition 398 Scientists (2025). Signatures of explosive volcanism in seismic reflection data. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.

3. **Preine, J.**, Karstens, J., Hübscher, C., Druitt, T., Kutterolf, S., Nomikou, P., ..., Papanikolaou, D. (2024). Scientific drilling reveals hazardous explosive eruptions of the Kameni Volcano inside the Santorini Caldera. IODP/ICDP Colloquium 2024, Bremerhaven, Germany.
4. **Preine, J.**, Hübscher, C., Metcalfe, A., Pank, K., Woodhouse, A., Koukousioura, ..., Karstens, J. (2024). IODP Expedition 398 reveals a major normal fault along the Kolumbo Volcanic Chain. EGU24, Vienna, Austria.
5. **Preine, J.**, Karstens, J., Hübscher, C., Druitt, T., Kutterolf, S., Nomikou, P., ..., Papanikolaou, D. (2024). Scientific drilling reveals hazardous explosive eruptions of the Kameni Volcano inside the Santorini Caldera. COV12, Antigua, Guatemala. **Invited.**
6. **Preine, J.**, Karstens, J., Hübscher, C., Druitt, T., Kutterolf, S., Nomikou, P., ..., Papanikolaou, D. (2023). Rising from the Ashes: Scientific Drilling Sheds New Light on the Spatio-Temporal Evolution of the Kameni Volcano inside the Santorini Caldera. AGU23, San Francisco, CA, USA. **Invited.**
7. **Preine, J.**, Hübscher, C., Karstens, Jens, Crutchley, Gareth J. & Nomikou, P. (2023) From Eruptions to Reflections: Seismic imaging of submarine volcanoes, their plumbing system and eruptive products at the Christiana-Santorini-Kolumbo Volcanic Field. Oceanic Volcanism Workshop, Kiel, Germany.
8. **Preine, J.**, Hübscher, C., Karstens, J., Crutchley, G., & Nomikou, P. (2023). Seismic imaging of the submarine Kolumbo Volcanic Chain reveals its volcano-tectonic evolution and link to Santorini (No. EGU23-714). EGU23, Vienna, Austria.
9. **Preine, J.**, Hübscher, C., Karstens, J., Crutchley, G. Nomikou, P., Druitt, T., ..., Papanikolaou, D. (2023). This Rift is on Fire: Volcano-Tectonic Evolution of the Christiana-Santorini-Kolumbo Volcanic Field. DGG Jahrestagung 2023, Bremen, Germany. **Invited.**
10. **Preine, J.**, Hübscher, C., Karstens, J., Crutchley, G. & Nomikou, P. (2023). Seismic imaging of the submarine Kolumbo Volcanic Chain. DGG Jahrestagung 2023, Bremen, Germany.
11. **Preine, J.**, Hübscher, C., Karstens, J. (2022). How the interplay of magmatism, tectonics, and mass-wasting shaped the morphology of the Christiana-Santorini-Kolumbo Volcanic Field. (2022). International Conference on Seafloor Landforms, Processes and Evolution. Valetta, Malta.
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17. **Preine, J.**, Schwarz, B., Bauer, A., Gajewski, D., & Hübscher, C. (2020). Seismic diffraction imaging-a case study from the Southern Aegean Sea. (No. EGU2020-538). EGU20, Virtual.

CONFERENCE/WORKSHOP POSTER

1. **Preine, J.**, Karstens, J., Hübscher, C., Crutchley, G., Berndt, C., ..., Expedition 398 Scientists (2025). From Reflections to Eruptions: Using marine seismic data to reconstruct volcanic eruptions offshore Santorini. MIT/WHOI Retreat. Cambridge, USA.
2. **Preine, J.**, Karstens, J., Hübscher, C., Druitt, T., Kutterolf, S., Nomikou, P., ..., Papanikolaou, D. (2025). IODP Expedition 398 Reveals Deposits of an Explosive Eruption of the Kameni

Volcano in 726 CE. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.

3. **Preine, J.**, Hübscher, C., Hooft, E., Metcalfe, A., Pank, K. (2025). Discovery of the Kolumbo Fault and its implications for Volcano-tectonic interactions at the Christiana-Santorini-Kolumbo Volcanic Field. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.
4. **Preine, J.**, Hübscher, C., Pałgan, D., van der Zwan, F., Dittmers, C., ..., Augustin, N. (2025). Submarine Explosive Volcanism at the Northern Reykjanes Ridge. IAVCEI 2025 Scientific Assembly, Geneva, Switzerland.
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8. **Preine, J.**, Hübscher, C. (2023). Contribution of German medium-sized research vessels to IODP: Outlook on IODP Expedition 398 – Hellenic Arc Volcanic Field. German Science Council Evaluation. Kiel, Germany.
9. **Preine, J.**, Hübscher, C. (2023). From Eruptions to Reflections: Comparing Seismic Images of Submarine Volcanic Cones at the Christiana-Santorini-Kolumbo Volcanic Field and the Azores Plateau. AGU23, San Francisco, CA, USA.
10. **Preine, J.**, Hübscher, C. (2022). Unraveling the interplay of magmatism, tectonics, and mass-wasting at the Christiana-Santorini-Kolumbo volcanic field: Outlook on core-log seismic integration on the upcoming IODP Expedition 398. ICDP/IODP Kolloquium 2022. Potsdam, Germany.
11. **Preine, J.**, Karstens, J., Hübscher, C., Crutchley, G., Druitt, T., Nomikou, P. (2022). The Hidden Giant: How a rift pulse triggered a disaster cascade of sector collapses and voluminous secondary mass-transport events in the early evolution of Santorini. COV11, Heraklion, Crete.
12. **Preine, J.**, Hübscher, C., Grob, H., Hüsing, M. (2017). Relationship between tectonics, glacial erosion, fluid migration as well as contourite and cyclic step deposition in the Skagerrak Trench. DGG Jahrestagung 2017. Potsdam, Germany.

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1. Della Salla, S., Kilias, S., Sporolopidi, V., Polymenakou, P., Kutterolf, S., ..., Expedition 398 Scientists. (2025). Marine sediment trace elements record past hydrothermal events in the Christiana-Santorini-Kolumbo Volcanic Field, Greece. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.
2. Debari, S., Pfundt, C., Pank, K., Mccanta, M., Druitt, T., ..., Expedition 398 Scientists. (2025). An early (~1.6 Ma) coarse-grained tephra unit in the Christiana-Santorini-Kolumbo volcanic field recovered from IODP Expedition 398: implications for early Hellenic arc magmatic processes. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.
3. Pank, K., Kutterolf, S., Metcalfe, A., Druitt, T., Schmitt, A., ..., **J. Preine**, ... Yamamoto, Y. (2025). Santorini's eruptive past from new deep-drilled marine tephra records. IODP Expedition 398 Hellenic Arc Volcanic. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.
4. Beethe, S., Schmitt, A. K., Koppers, A., Pank, K., ..., **Preine, J.**, ..., IODP Expedition 398 Scientists (2025). New Age for the Archaeos Tuff: Using $^{40}\text{Ar}/^{39}\text{Ar}$ and U-Pb to Redefine Ancestral Santorini's Tephrochronostratigraphy and Implications for Rapid Magma

Accumulation. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.

5. Druitt, T., Metcalfe, A., Pank, K., Kutterolf, S., **Preine, J.** & IODP Expedition 398 Scientists (2025). Far-travelled ash megaturbidite fed by shoreline-crossing pyroclastic currents from the Kost Plateau Tuff eruption. IODP Expedition 398, Hellenic Arc Volcanic Field. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.
6. Metcalfe, A., Druitt, T., Pank, K., Kutterolf, S., **Preine, J.** & IODP Expedition 398 Scientists (2025). Role of external processes in the initiation and modulation of explosive volcanism at the Christiana-Santorini-Kolumbo Volcanic Field. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.
7. Metcalfe, A., Pank, K., Druitt, T., Kutterolf, S., **Preine, J.**, ..., IODP Expedition 398 Scientists (2025). The Eruptive History of the Kolumbo Volcanic Chain and its transient magmatic connection with Santorini Volcano. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.
8. Arneke, A., Karstens, J., Jover, B. J., **Preine, J.**, Berndt, C., ..., Nomikou, P. (2025). Reconstructing the Cape Riva eruption: Insights from submarine pyroclastic deposits and seismic data. Tephrostratigraphy and associated research of the Mediterranean Workshop. Kiel, Germany.
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