
Education

- 2023–today **PhD candidate**, *Geophysics*, Institute of Geophysics and Planetary Physics, Scripps Institution of Oceanography, UC San Diego, United States
- 2020–2023 **Master of Science**, *Geophysics*, Ludwig-Maximilians-University & Technical University Munich, Germany
- 2016–2020 **Bachelor of Science**, *Earth Sciences*, Ludwig-Maximilians-University & Technical University Munich, Germany
- 2007–2015 **German Higher Education Entrance Qualification (Abitur)**, Staffelsee-Gymnasium Murnau, Germany

Scholarships

- 2023–2024 **Regents Fellowship**, *Scripps Institution of Oceanography*, University of California, San Diego (UCSD), United States
- 2019–2023 **German National Scholarship**, Technical University of Munich & Federal Ministry of Education and Research, Germany
- 2018 **Erasmus+ student exchange program**, *University of Bergen*, Norway

Publications

- 2024 Kutschera, F., Gabriel, A.-A., Wirp, S. A., Li, B., Ulrich, T., Abril, C., & Halldórsson, B. (2024). Linked and fully coupled 3D earthquake dynamic rupture and tsunami modeling for the Húsavík–Flatey Fault Zone in North Iceland. *Solid Earth*, 15(2), 251–280. <https://doi.org/10.5194/se-15-251-2024>.

Conference contributions

- 2024 Ulrich, T., Gabriel, A.-A., Kutschera, F.: Towards automated rapid earthquake dynamics characterization: a proof of concept based on the 2024 Mw7.4 Noto Peninsula, Japan, earthquake, EGU General Assembly 2024, Vienna, Austria, 14–19 April 2024, DOI:10.5194/egusphere-egu24-19510.
- 2023 Kutschera, F., Gabriel, A., Wirp, S., Li, B., Ulrich, T., Abril, C., & Halldórsson, B.: Linked and fully-coupled 3D earthquake dynamic rupture and tsunami modeling for the Húsavík–Flatey Fault Zone in North Iceland. Poster Presentation at 2023 SCEC Annual Meeting.

- 2023 Wirp, S. A., Gabriel, A.-A., Li, B., Kutschera, F., Ulrich, T.: Towards Fully Physics-Based Seismic and Tsunami Hazard Assessment, 2023 SIAM Conference on Mathematical & Computational Issues in the Geosciences, Bergen, Norway, 19-22 June 2022.
- 2022 Kutschera, F., Gabriel, A.-A., Wirp, S. A., Li, B., Ulrich, T., Abril, C., & Halldórsson, B.: Modeling potential earthquake-tsunami scenarios from earthquake rupture simulations on the Húsavík-Flatey Fault Zone, North Iceland. Proceedings of the NorthQuake 2022 Workshop (Ed. S. Jónsson et Al.), Húsavík Academic Centre, 45–49, ISBN 978-9935-405-70-8.
- 2022 Kutschera, F., Wirp, S. A., Li, B., Gabriel, A.-A., Halldórsson, B., and Abril, C.: Physics-based earthquake-tsunami modelling of the Húsavík-Flatey transform fault zone in North Iceland, EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, DOI:10.5194/egusphere-egu22-13387.
- 2021 Kutschera, F., Wirp, S. A., Li, B., Gabriel, A.-A., Halldórsson, B., Abril, C., and Rannabauer, L.: Linking dynamic earthquake rupture to tsunami modeling for the Húsavík-Flatey transform fault system in North Iceland, EGU GA 2021, 19–30 Apr 2021, DOI:10.5194/egusphere-egu21-15891.

Selected past employments

- 05/2023 – 08/2023 **EarthScope Consortium**,
Online
Teaching assistant
- 11/2021 – 05/2023 **Ludwig-Maximilians-University (LMU - Geophysics)**,
and Munich, Germany
10/2020 – 03/2021 Student assistant
- 02/2021 – 10/2021 **Allianz SE Reinsurance**,
Munich, Germany
Working student
- 07/2019 – 10/2019 **Karlsruhe Institute of Technology, Campus Alpin (IMK-IFU)**,
Garmisch-Partenkirchen, Germany
Student assistant