Dominik Strutz

Last updated: December, 2024

Email: domink.strutz@ed.ac.uk
Research group: blogs.ed.ac.uk/curtis/
Website: dominik-strutz.github.io/

Education

2021 – on **PhD in Geophysics**, University of Edinburgh

2019 – 2021 **MSc in Geophysics**, Ludwig-Maximilians-Universität and Technische Universität München

2017 – 2019 **BSc in Earth Sciences**, Ludwig-Maximilians-Universität and Technische Universität München

2016 – 2017 **BSc in Physics**, Technische Universität München

Publications

Peer-reviewed Papers

2024 **Strutz, D**, Curtis, A. Variational Bayesian experimental design for geophysical applications: seismic source location, amplitude versus offset inversion, and estimating CO2 saturations in a subsurface reservoir *Geophysical Journal International*. doi:10.1093/gji/ggad492.

Preprints

2024 **Strutz, D**, Curtis, A. Near-real-time design of experiments for seismic monitoring of volcanoes *arxiv*. doi:10.48550/arXiv.2411.11015

Presentations

Invited

2024 **Strutz, D**, Curtis, A. Experimental Design for Geophysical Applications *LMU Munich Geophysics Department Lunchtime Seminar*

2022 **Strutz, D**, Curtis, A. Bayesian Optimal Experimental Design for Geophysical Applications *IPGP Seismology Seminars*

2022, 2023, 2024 **Strutz, D**, Curtis, A. Bayesian Optimal Experimental Design for Geophysical Applications *Edinburgh Imaging Project Partners Meeting*

Other Presentations

2024 **Strutz, D**, Kiers, T., Schmelzbach, C., Maurer, H., and Curtis, A. Variational Bayesian Experimental Design for Geophysical Application *EGU General Assembly 2024*

2024 **Strutz, D**, Kiers, T., Schmelzbach, C., Maurer, H., and Curtis, A. Variational Bayesian Experimental Design for Geophysical Application *EGU General Assembly 2024*

2023 **Strutz, D**, Curtis, A. Variational Bayesian Experimental Design for Geophysical Application *Machine Learning in Geophysics UK Conference 2023*

2023 **Strutz, D**, Curtis, A. Variational Experimental Design Methods for Geophysical Applications *EGU General Assembly 2023*

2022 Schuberth, B., **Strutz, D**, and Schneider, A. Earth's free-oscillation spectrum as a tool to assess mantle circulation models *EGU General Assembly 2022*,

Open Science

Open-source Software

2019 – 2020 **Obspy** | docs.obspy.org
Project dedicated to provide a Python framework for processing seismological data.
Role: fixing bugs, contributing to tools for array analysis

Miscellaneous

Languages

German	Native
English	proficient
Swedish	elementary

Glossary

Indicates that a publication is open-access

Link to a code repository on GitHub

Link to an open-access PDF, usually a preprint or postprint