CURRIULUM VITÆ Tobias Stephan

Dr Tobias Stephan

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1 EDUCATION

2019/03 Doctor of Philosophy (PhD) in "Geology"
 Technische Universität Bergakademie Freiberg, Germany

 2013/09 Master of Science (MSc) in "Geosciences"
 Technische Universität Bergakademie Freiberg, Germany

 2010/09 Bachelor of Science (BSc) in "Geology and Mineralogy"

Technische Universität Bergakademie Freiberg, Germany

2 PROFESSIONAL EXPERIENCE

since 2023/04 Postdoctoral associate

Lakehead University, Department of Geology, Thunder Bay, ON, Canada

since 2024/09 Lecturer

Lakehead University, Department of Geology, Thunder Bay, ON, Canada

2020/12-2022/11 **DFG Research Fellow**

University of Calgary, Geo- and Thermochronology Research Group, Department of Geoscience,

Calgary, AB, Canada

2020/03-2020/11 Postdoctoral associate

Friedrich-Alexander-Universität Erlangen-Nürnberg, Geozentrum Nordbayern, Erlangen, Germany

2019/09-2019/12 **Research assistant**

Technische Universität Bergakademie Freiberg, Institute for Computer Sciences, Freiberg, Germany

2014/01–2014/06 **Geologist**

Beak Consultants GmbH (Germany/Tanzania)

3 PUBLICATIONS

3.1 Peer-reviewed articles

Stephan, T., Phillips, N., Tiitto, H., Perez, A., Nwakanma, M., and Hollings, P. (2025): "Going with the flow — Changes of Vorticity Controls Gold Enrichment in Archean Shear Zones (Shebandowan Greenstone Belt, Superior Province, Canada)". *Journal of Structural Geology* 201. doi: 10.1016/j.jsg.2025.105542.

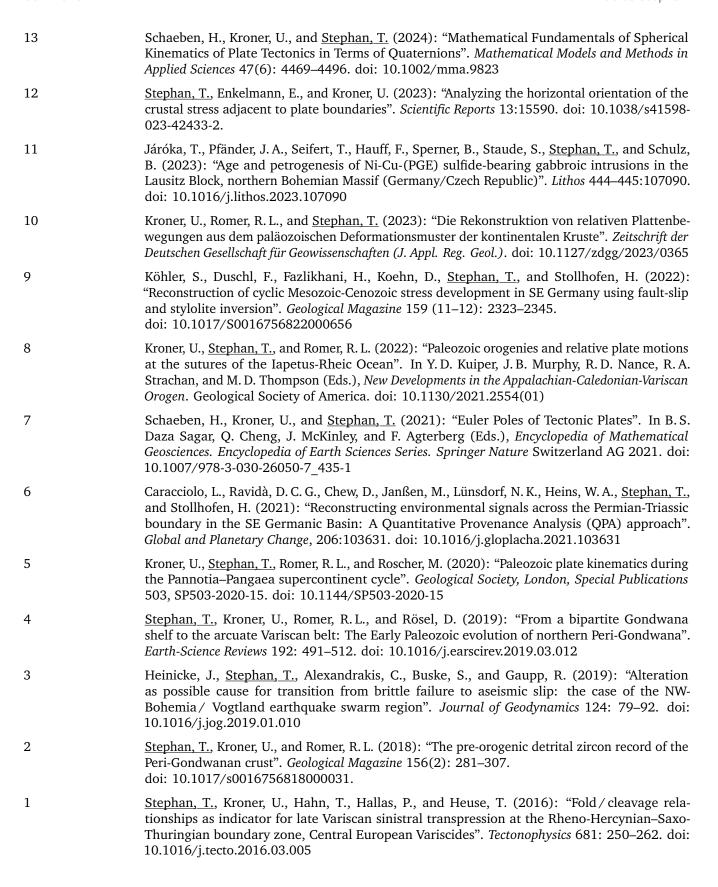
15 <u>Stephan, T.</u>, and Enkelmann, E. (2025): "All Aligned on the Western Front of North America? Analyzing the Stress Field in the Northern Cordillera". *Tectonics* 44(9). doi: 10.1029/2025TC009014.

Padgett, J., Enkelmann, E., Kellett, D., Moynihan, D., and Stephan, T. (2025): "Cenozoic faulting

in the Upper Hyland River Valley, Southeastern Yukon: A thermochronological perspective".

Canadian Journal of Earth Sciences 62(5): 1002-1022. doi: 10.1139/cjes-2024-0147.

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3.2 Other academic articles

Book Legler, C., Barth, A., Knobloch, A., Mruma, A. H., Myumbilwa Y., Magigita, M., Msechu, M.,

Ngole, T., Stanek, K. P., Boniface, N., Kagya, M., Manya, S., Berndt, T., Stahl, M., Gebremichael, M., Dickmayer, E., Repper, C., Falk, D., and Stephan, T. (2015): "Explanatory Notes for the Minerogenic Map of Tanzania 1:1,5 M.", *Geological Survey of Tanzania*. ISBN: 978-9987-477-94-

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4 SOFTWARE DEVELOPMENTS

tectonicr Free and open-source R package for modeling and analyzing the direction of the maximum

horizontal stress using relative plate motion (doi: 10.32614/CRAN.package.tectonicr).

Package website: https://tobiste.github.io/tectonicr/

structr Free and open-source R package for analyzing and visualizing orientation data for structural

geology. https://github.com/tobiste/structr

geoprofiler Creates Swath profiles and Distance vs X plots by measuring the accurate distances parallel

and perpendicular to user-defined lines (doi: 10.32614/CRAN.package.geoprofiler). https:

//tobiste.github.io/geoprofiler/

ptrotR Free and open-source R package for plate motion reconstruction.

https://github.com/tobiste/ptrotR

laftr Free and open-source R package to calculate the ages from LA-ICP-MS based fission track dating

using the zeta approach. https://github.com/tobiste/laftr

euler Free and open-source R package for describing plate motion in terms of quaternions.

https://github.com/tobiste/euler

euler.reco Free and open-source R package. Provides algorithms to find and evaluate the Euler pole

solution describing the orientation of geological structures.

https://github.com/tobiste/euler.reco

5 FUNDING, GRANTS, AND AWARDS

Grants 2020–2022 DFG Research Fellowship (85 000€) — German Research Foundation (DFG)

2016 Travel grant (750€) — Centre of Advanced Study and Research Freiberg 2013 Travel grant (500€) — TU Bergakademie Freiberg Association of Friends

2009 IAESTE Internship stipend — International Association for the Exchange of Students for

Technical Experience (IAESTE)

Awards Poster award at CETEG2015, Kadaň, Czech Republic, 2014

6 PROFESSIONAL SERVICES AND MEMBERSHIPS

Memberships The Geological Association of Canada (GAC), Canadian Tectonics Group (CTG)

Reviewer for journals Geology, Gondwana Research, Terra Nova, Geological Society of America, Scientific Reports,

Proceedings of the Geologists' Association, Basin Research, Lithosphere, Discover Geoscience,

Tectonics

Reviewer for grant proposals National Science Center, Poland

(since 2023)

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Tobias Stephan

Session Chair

GAC-MAC-PEG 2024 (Brandon, MN, Canada): "It's our fault! Geological and geophysical insights into fault and shear zone processes"

September 18, 2025