# David Whipp

Professor, University of Helsinki

Institute of Seismology, Department of Geosciences and Geography P.O. Box 68 (Pietari Kalmin katu 5) FI-00014 University of Helsinki, Finland

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#### Education

**Ph.D., Geology**, University of Michigan, Ann Arbor, MI, USA. **B.S., Geology (Physics minor)**, University of Michigan, Ann Arbor, MI,
USA.

#### Experience

Institute of Sustainability Science (HELSUS), University of Helsinki, Helsinki, Finland. Adjunct of the Faculty of Graduate Studies, Department of Earth Sciences, Dalhousie University, Halifax, NS, Canada. Associate professor, Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland. Assistant professor, Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland. Postdoctoral fellow, Department of Oceanography, Dalhousie University, Halifax, NS, Canada. Postdoctoral fellow, Géosciences Rennes, University of Rennes 1, Rennes, France. Geoscientist (intern), ExxonMobil Exploration Company, Houston, TX, USA. Research assistant, Department of Geological Sciences, University of Michigan, Ann Arbor, MI, USA. Laboratory assistant, Department of Geological Sciences, University of Michigan, Ann Arbor, MI, USA. Tech consultant and Sites rover, Campus Computing Sites, University of

#### **Publications**

Publication list also available in Google Scholar. \* = student as lead author, † = shared first authorship.

Michigan, Ann Arbor, MI, USA.

Books

H. Tenkanen, V. Heikinheimo, and **D. M. Whipp**. Introduction to Python for Geographic Data Analysis. CRC Press (expected publication in 2023). **In progress**, online at https://pythongis.org/.

#### Journal articles

V. Peltonen, S. Kultti, N. Putkinen, V. Rinterknecht, A. Hall, and **D. M. Whipp**. Reducing uncertainty in source area exploration of mineralized glacial erratics using terrestrial cosmogenic radionuclide dating. Journal of Geochemical Exploration., **under review**.

D. Grujic, M. Bernet, I. Coutand, and **D. M. Whipp**. Fast crustal cooling caused by the end of exhumation. **in revision**.

S. Fan, M. Murphy, **D. M. Whipp**, J. Saylor, P. Copeland, A. Hoxey, M. Taylor, and D. Stockli. Megathrust Heterogeneity, Crustal Accretion, and a

Topographic Embayment in the Western Nepal Himalaya: Insights from the Inversion of Thermochronological Data. Tectonics, doi: 10.1029/2021TC007071, 2022.

- D. M. Whipp†, D. A. Kellett†, I. Coutand, and R. A. Ketcham. Short communication: Modelling competing effects of cooling rate, grain size and radiation damage in low temperature thermochronometers. Geochronology, 4, 143-152, doi: 10.5194/gchron-4-143-2022, 2022.
- A. E. Rintamäki, G. Hillers, T. A. T. Vuorinen, T. Luhta, J. M. Pownall, C. Tsarsitalidou, K. Galvin, J. Keskinen, J. T. Kortström, T.-C. Lin, P. B. Mäntyniemi, K. J. Oinonen, T. J. Oksanen, P. J. Seipäjärvi, G. Taylor, M. R. Uski, A. I. Voutilainen, and **D. M. Whipp**. A seismic network to monitor the 2020 EGS stimulation in the Espoo/Helsinki area, southern Finland. Seismological Research Letters, doi: 10.1785/0220210195, 2021.
- J. Schütt\* and **D. M. Whipp**. Controls on continental strain partitioning above an oblique subduction zone, Northern Andes. Tectonics. doi: 10.1029/2019TC005886, 2020.
- D. Grujic, K. Ashley, M. Coble, I. Coutand, D. Kellett, K. Larson, D. M. Whipp, M. Gao, and N. Whynot. Deformational temperatures across the Lesser Himalayan Sequence in eastern Bhutan and their implications for the deformation history of the Main Central Thrust. Tectonics. 10.1029/2019TC005914, 2020.
- A. Koptev, T. A. Ehlers, M. Nettesheim, and D. M. Whipp. Response of a rheologically stratified lithosphere to subduction of an indenter-shaped plate: Insights into localized exhumation at orogen syntaxes. Tectonics. doi: 10.1029/2018TC005455, 2019.
- D. M. Whipp and T. A. Ehlers. Quantifying landslide frequency and sediment residence time in the Nepal Himalaya. Science Advances, 5(4). doi: 10.1126/sciadv.aav3482, 2019.
- M. Nettesheim\*, T. A. Ehlers, **D. M. Whipp**, and A. Koptev. The influence of upper-plate advance and erosion on overriding plate deformation in orogen syntaxes. Solid Earth, 9, 1207-1224. doi: 10.5194/se-9-1207-2018, 2018.
- K. R. Landry\*, I. Coutand, D. M. Whipp, D Grujic, and J. K. Hourigan. Late Neogene tectonically driven crustal exhumation of the Sikkim Himalaya: Insights from inversion of multithermochronologic data. Tectonics, 35(3):833-859. doi: 10.1002/2015TC004102, 2016.
- D. M. Whipp, C. Beaumont, and J. Braun. Feeding the 'aneurysm': Orogenparallel mass transport into Nanga Parbat and the western Himalayan syntaxis. Journal of Geophysical Research: Solid Earth, 119(6):5077-5096. doi: 10.1002/2013JB010929, 2014.
- M. A. Murphy, M. H. Taylor, J. Gosse, C. R. P. Silver, D. M. Whipp, and C. Beaumont. Limit of strain partitioning in the Himalaya marked by large earthquakes in western Nepal. Nature Geoscience, 7(1):38-42. doi: 10.1038/ngeo2017, 2014.
- I. Coutand, **D. M. Whipp**, D. Grujic, M. Bernet, M. G. Fellin, B. Bookhagen, K. R. Landry, S. K. Ghalley, and C. Duncan. Geometry and kinematics of the Main Himalayan Thrust and Neogene crustal exhumation in the Bhutanese Himalaya derived from inversion of multithermochronologic data. Journal of Geophysical Research: Solid Earth, 119(2):1446-1481. doi: 10.1002/2013JB010891, 2014.
- D. M. Whipp, T. A. Ehlers, J. Braun, and C. D. Spath. Effects of exhumation kinematics and topographic evolution on detrital thermochronometer data. Journal of Geophysical Research: Earth Surface, 114(F4). doi: 10.1029/2008JF001195, 2009.
- T. F. Schildgen, T. A. Ehlers, D. M. Whipp, M. C. van Soest, K. X. Whipple, and K. V. Hodges. Quantifying canyon incision and Andean Plateau surface uplift, southwest Peru: A thermochronometer and numerical modeling approach. Journal of Geophysical Research: Earth Surface, 114(F4). doi: 10.1029/2009JF001305, 2009.

<b>D. M. Whipp</b> and T. A. Ehlers. Influence of groundwater flow on thermochronometer-derived exhumation rates in the central Nepalese Himalaya. Geology, 35(9):851–854. doi: 10.1130/G23788A.1, 2007.	2007
K. W. Huntington, T. A. Ehlers, K. V. Hodges, and <b>D. M. Whipp</b> . Topography, exhumation pathway, age uncertainties, and the interpretation of erosion rates from thermochronometer data. Tectonics, 26(4) . doi: 10.1029/2007TC002108, 2007.	
<b>D. M. Whipp</b> , T. A. Ehlers, A. E. Blythe, K. W. Huntington, K. V. Hodges, and D. W. Burbank. Plio-Quaternary exhumation history of the central Nepalese Himalaya: 2. Thermo-kinematic and thermochronometer age prediction model. Tectonics, 26(3). doi: 10.1029/2006TC001991, 2007.	
<b>D. M. Whipp</b> . Tc1D: a 1D thermal and thermochronometer age prediction model for quantifying rates of geodynamic and geomorphic processes. doi: 10.5281/zenodo.7124271	
<b>D. M. Whipp</b> and R. A. Ketcham. tcplotter: a Python package for creating and customizing thermochronometer age and closure temperature plots. doi: 10.5281/zenodo.5958939.	
Funding includes only amounts over 5000€	
Research infrastructure funding, Academy of Finland, Finland, 961 620€ (Project total: 1 956 596€). Consortium PI.  DATA-EPOS: Modern and efficient metadata and data handling platforms for	2024-2028
FIN-EPOS	
Academy Project, Academy of Finland, Finland, 501 081€. Sole PI. EXploiting Thermochronometer sensitivity to RAdiation damage to quantify rates of Craton exhumation through Time (EXTRACT)	2023-2027
<b>Project funding</b> , Renlund foundation, Finland, 37 992€. Sole PI. Building quantitative links between geodynamics and metamorphism in the Paleoproterozoic: Insight into emplacement of orogenic gold deposits	2021-2023
<b>Academy Project</b> , Academy of Finland, Finland, 451 763€. Sole PI. What controls deformation in a 'bent' 3D orogen? The effects of spatially variable rock strength, erosion and mass transport on the tectonics of the Bolivian Andes	2014-2018
Three-Year Research Project, University of Helsinki, Helsinki, Finland, 145 000€. Sole PI.	2014-2017
What controls strain partitioning at obliquely convergent ocean-continent margins? 3D dynamics of crustal deformation along the western Andean margin	
ACEnet Research Fellowships Program, Atlantic Canada Computational Excellence Network (ACEnet), Canada, \$40 000 [CAD]. Co-PI with C. Beaumont.	2010-2012
3-D plateau formation and evolution from numerical model experiments	
Faculty of Science internal infrastructure funding, University of Helsinki, Helsinki, Finland, 90 000€. Sole PI.	2016
Geosciences high-performance computing cluster (geo-hpcc)	
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Department of Geosciences and Geography internal infrastructure funding, University of Helsinki, Helsinki, Finland, 120 000€. Sole PI.

Computational infrastructure for Earth Sciences

Software

**Grants** and funding

Under review

Research funding

Infrastructure

### Computing

allocations

Awards and honors

Invited talks

PRACE Preparatory Access, Partnership for Advanced Computing in Europe (PRACE), Brussels, Belgium, 200,000 core-hours. Sole PI. Nested DOUAR: Coupling high and low resolution finite element models to solve 3D geologic problems Compute Canada National Resource Allocation, Compute Canada, Toronto, ON, Canada, 109 core-years. Co-PI with J. Allen and C. Beaumont. Modelling the three-dimensional dynamics of geologic systems: From subsea salt to the Himalayan peaks Teacher of the Year, Vasara Ry (Geology student organization), University of Helsinki, Finland. Exceptional Reviewer, Lithosphere, Geological Society of America. Outstanding Graduate Student Instructor Award, Rackham Graduate School, University of Michigan, Ann Arbor, MI, USA. Outstanding Graduate Student Instructor Award, Department of Geological Sciences, University of Michigan, Ann Arbor, MI, USA. Outstanding Student Paper Award, Tectonophysics Section, American Geophysical Union Fall Meeting. Camp Davis Field Geologist Award, Department of Geological Sciences, University of Michigan, Ann Arbor, MI, USA. University of Turku, Department seminar, Department of Geography and Geology, Turku, Finland. 16th International Conference on Thermochronology (Thermo 2018), Session 2: Diffusion / annealing kinetics and thermal modelling, Quedlinburg, Germany. University of Lausanne, Department seminar, Institute of Earth Sciences, Lausanne, Switzerland. **European Geosciences Union General Assembly**, Session TS7.8: Mountain building processes, from top to bottom: the Zagros-Himalaya-Tibet orogenic system, Vienna, Austria. American Geophysical Union Fall Meeting, Session T42B: Sedimentary Basin Records of Convergent Orogenic Systems, San Francisco, CA, USA. University of Potsdam, Colloquium talk, Institute of Earth and Environmental Science, Potsdam, Germany. American Geophysical Union Fall Meeting, Session EP23G: From High Peaks to Level Plains: Using Thermochronometry to Study the Evolving Geosphere, San Francisco, CA, USA. University of Tübingen, Earth System Dynamics Research Group seminar, Department of Geosciences, Tübingen, Germany. Joseph Fourier University, Grand séminaire, Institut des Sciences de la Terre, Grenoble, France. Geological Society of America Annual Meeting, Session T46: Linking Shallow to Deep Crustal Processes in Arc and Collisional Orogens, Portland, OR, USA. Joseph Fourier University, Seminar talk, Laboratoire de géodynamique des chaînes alpines, Grenoble, France. Dalhousie University, Department seminar, Department of Earth Sciences, Halifax, NS, Canada.

## Conference activity

Teaching

Main courses

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Session chair, NetherMod 2017 - XV International Workshop on Numerical Modelling of Mantle and Lithosphere Dynamics, Putten, Netherlands. "Global modelling of early and recent Earth" Session co-convener, Nordic Geological Winter Meeting, Helsinki, Finland. "Dynamics and evolution of the lithosphere from Archean to present" "Interactions between climate, erosion and tectonics" Steering committee, Lithosphere 2014 symposium, Turku, Finland. Session co-chair, 28th Himalayan Karakorum Tibet Workshop and 6th International Symposium on Tibetan Plateau Joint Conference, Tübingen, Germany. "Crustal Doming, Exhumation and Lateral Extrusion" Session co-convener, Geological Society of America Annual Meeting, Denver, Colorado, USA. "Orogeny: From rigid plates to diffuse lithospheric deformation", one of several sessions celebrating the 30th anniversary of the Structural Geology and Tectonics Division of the GSA YouTube channel Department of Geosciences and Geography, University of Helsinki, Helsinki, 2013-present Finland. - Current Topics in Global Geophysics Research - Geo-Python (with Henrikki Tenkanen and Vuokko Heikinheimo) 🏫 🖓 🔼 - Geodynamics - Introduction to Lithospheric Geodynamic Modelling (with Lars Kaislaniemi) **A**0 - Introduction to Quantitative Geology 🏫 🖓 🔼 - Lithospheric Structure and Dynamics (with Ilmo Kukkonen) Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland. - Conducting scientific research (with Tapani Rämö) 🋖 Low-temperature thermochronology, GeoDoc short course, University of Helsinki, Helsinki, Finland. 🛖 🗖 Co-taught with Ilmo Kukkonen and invited lecturers Cécile Gautheron, Christoph Glotzbach, and Clare Warren Introduction to lithospheric geodynamic modelling, Nordic Geological Winter Meeting, Helsinki, Finland. Co-taught with Lars Kaislaniemi **Software Carpentry Bootcamp**, University of Helsinki, Helsinki, Finland. A Co-taught with Joona Lehtomäki Introduction to Lithospheric Geodynamics, Geological Survey of Finland, Espoo, Finland.

Guest lectures

Short courses

Geochronology and Thermochronology, Department of Earth Sciences, 2010-present Dalhousie University, Halifax, NS, Canada.

Guest lectures in years 2010, 2019, 2021, 2022

Co-taught with Lars Kaislaniemi

	Geological Processes/Dynamic Earth (Introductory geoscience course), Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland.	2015-2018
Assistant teaching	Department of Geological Sciences, University of Michigan, Ann Arbor, MI, USA	2003-2007
	<ul> <li>Earth Surface Processes and Soils laboratory</li> <li>Geology of the Rockies, University of Michigan Camp Davis, WY, USA</li> <li>Introduction to Geology laboratory/discussion</li> <li>Introduction to Oceanography laboratory</li> </ul>	
Supervision		
Postdoctoral		
researchers	<b>Sean Kelly</b> , Geological Survey of Canada, Dartmouth, N.S., Canada. Co-supervised with Dawn Kellett (GSC)	2023-present
	<b>Lars Kaislaniemi</b> , Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland.	2015-2018
Doctoral		
researchers	<b>Ann-Kathrin Maier</b> , Institute of Seismology, University of Helsinki, Helsinki, Finland.	2024-present
	<b>Leevi Tuikka</b> , Institute of Seismology, University of Helsinki, Helsinki, Finland.	
	Miisa Häkkinen, Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland.  Co-supervised with Jon Pownall and Pentti Hölttä (GTK)	2021-present
	Veikko Peltonen, Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland. Co-supervised with Seija Kultti	2020-present
	Tuija Luhta, Institute of Seismology, University of Helsinki, Helsinki, Finland. Co-supervised with Timo Tiira	2019-present
	Matthias Nettesheim, Department of Geosciences, University of Tübingen, Tübingen, Germany.  Co-supervised with Todd Ehlers	2017-2021
	<b>Jorina Schütt</b> , Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland.	2014-2018
Masters students	Ida-Maria Hanski, Master's Program in Geology and Geophysics, University of Helsinki, Helsinki, Finland. Co-supervised with Tuija Luhta and Kati Oinonen	2020-present
	<b>Leevi Tuikka</b> , Master's Program in Geology and Geophysics, University of Helsinki, Helsinki, Finland.	2021-2023
	<b>Aleksi Rantanen</b> , Master's Program in Geology and Geophysics, University of Helsinki, <b>Helsinki</b> , <b>Finland</b> .	2018-2021
	<b>Yijun Wang</b> , Master's Program in Geology and Geophysics, University of Helsinki, <b>Helsinki</b> , <b>Finland</b> .	2019-2020
	<b>Lotta Ylä-Mella</b> , Master's Program in Geology and Geophysics, University of Helsinki, Helsinki, Finland.	2017-2020

Co-supervised with Ilmo Kukkonen

**Geo-Python**, Department of Geography and Geology, University of Turku and Department of Geology and Mineralogy, Åbo Akademi University, **Turku**,

Finland.

	<b>Nelli Metiäinen</b> , Master's Program in Geography, University of Helsinki, Helsinki, Finland.	2017-2019
	<b>Niclas Blomqvist</b> , Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland.	2014-2016
	Now: Geologist, Pöyry Finland Oy	
Bachelors theses	<b>Minttu Pekkala</b> , Bachelor's Program in Geoscience, University of Helsinki, Helsinki, Finland.	2021-2023
	<b>Leevi Tuikka</b> , Bachelor's Program in Physical Sciences, University of Helsinki, Helsinki, Finland.	2018-2020
	<b>Lotta Ylä-Mella</b> , Bachelor's Program in Physical Sciences, University of Helsinki, <b>Helsinki</b> , <b>Finland</b> .	2016-2018
	<b>Jennifer Hällsten</b> , Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland.  Co-supervised with Jorina Schütt	2016-2017
Visiting		
researchers	<b>Mehrnoosh Ghadimi</b> , Department of Physical Geography, University of Tehran, Tehran, Iran.	2017-present
Supervisory		
committee	<b>Niina Junno</b> , Doctoral student, Doctoral program in Geosciences, University of Helsinki, <b>Helsinki</b> , <b>Finland</b> .	2021-present
	<b>Toni Luoto</b> , Doctoral student, Doctoral program in Geosciences, University of Helsinki, <b>Helsinki</b> , <b>Finland</b> .	2020-present
	<b>Tsarsitalidou, Christina</b> , Doctoral student, Doctoral program in Geosciences, University of Helsinki, <b>Helsinki</b> , <b>Finland</b> .	
	<b>Riikka Fred</b> , Doctoral student, Doctoral program in Geosciences, University of Helsinki, <b>Helsinki</b> , <b>Finland</b> .	2020-2022
	<b>Ville Virtanen</b> , Doctoral student, Doctoral program in Geosciences, University of Helsinki, <b>Helsinki</b> , <b>Finland</b> .	
	<b>Suoya Fan</b> , Doctoral student, Dept. of Earth and Atmospheric Sciences, University of Houston, Houston, TX, USA.	2019-2021
	<b>Rémi Vachon</b> , Doctoral student, Dept. of Earth Sciences, Uppsala University, Uppsala, Sweden.	2018
	Janice Allen, Doctoral student, Dept. of Earth Sciences, Dalhousie University, Halifax, NS, Canada.  Now: Imperial Oil, Canada	2011-2016
	Gabe Creason, Masters student, *Department of Earth Sciences, Dalhousie University, Halifax, NS, Canada.	2012-2015
	Now: Ph.D. student, Oregon State University <b>Kyle Landry</b> , Masters student, Department of Earth Sciences, Dalhousie University, Halifax, NS, Canada.	2011-2014
Undergraduate		
researchers	<b>Bérénice Cateland</b> , Geosciences, University of Bordeaux, Bordeaux, France.	2021
	Leevi Tuikka, Department of Physics, University of Helsinki, Helsinki, Finland.	2017-2019
	Christoph Brendel, Institute for Geology, University of Hamburg, Hamburg, Germany.	2019
	Jugraj Singh, Rajiv Gandhi Institute of Petroleum Technology, Jais, Uttar	

Pradesh, India.

Marta Girbau, Department of Geology, Universitat Autònoma de Barcelona, Barcelona, Spain.	2018
Miro Pütz, Institute of Geophysics, University of Hamburg, Hamburg,	2016
Germany.  Niclas Blomqvist, Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland.	2014
Chris Spath, Department of Electrical Engineering and Computer Science, University of Michigan, Ann Arbor, MI, USA. Co-supervised with Todd Ehlers	2006-2008
<b>Nick Olds</b> , Department of Geological Sciences, University of Michigan, Ann Arbor, MI, USA.	2004
Co-supervised with Todd Ehlers	
As a Supervisor, University of Helsinki, Helsinki, Finland. Supervisor training program organized by the university to support supervisors in managing their teams.	2023
<b>Learning in Higher Education (UP1)</b> , Centre for University Teaching and Learning, University of Helsinki, Helsinki, Finland.  Five credit introductory course for university pedagogy.	2020
Unilead leadership program, Faculty of Science, University of Helsinki, Helsinki, Finland.	2019
Leadership program organized by the Faculty of Science for the University of Helsinki supervisors to support them in their managerial duties and develop their leadership skills.	
Classroom observation, Center for Research on Learning and Teaching, University of Michigan, Ann Arbor, MI, USA.	2007
A short course on how to conduct and share classroom observations.	
<b>Member</b> , Finnish national International Lithosphere Program (ILP) committee.	2022-present
Associate editor, Tektonika, https://tektonika.online.	2022-2024
<b>Review panel member</b> , German Research Foundation Priority Programs (SPP 2017: Mountain Building Process in Four Dimensions), <b>Berlin</b> , Germany.	2020
Preparatory committee member, AdriaArray project.	2019-present
<b>Judge</b> , Outstanding Student Poster and PICO Award, European Geosciences Union General Assembly, Vienna, Austria.	2016-2018
<b>Judge</b> , Outstanding Student Paper Awards, American Geophysical Union Fall Meeting, San Francisco, CA, USA.  Did not attend/judge in 2015	2013-2016
Scientific expert in review panel, Fennovoima nuclear power company, Helsinki, Finland.	2013-2015
Referee.	2007-present
Journals: Basin Research, Chemical Geology, Earth and Planetary Science Letters, Earth-Science Reviews, Earth Surface Processes and Landforms, G-cubed (Geochemistry, Geophysics, Geosystems), Geological Society of America Bulletin, Geology, Geophysica, Geoscientific Model Development, International Journal of Earth Sciences, Journal of Geophysical Research - Solid Earth, Journal of South American Earth Sciences, Lithosphere, Nature	

Professional training

Professional

service

**Research project proposals**: German Research Foundation, Natural Sciences and Engineering Research Council of Canada, The Royal Society

Solid Earth, Journal of South American Earth Sciences, Lithosphere, Nature Communications, Nature Geoscience, Science, Tectonics, Tectonophysics

UK (International Collaboration Awards), UK Natural Environment Research Council, US National Science Foundation (Earth Sciences Postdoctoral Fellowship program, Geomorphology and Land Use Dynamics program, Tectonics program)

### University service

Director, Masters program in Geology and Geophysics, University of Helsinki, Helsinki, Finland. Board member, Doctoral program in Geosciences, University of Helsinki, Helsinki, Finland. **Deputy director**, Institute of Seismology, University of Helsinki, Helsinki, Finland. **Deputy member**, Department of Geosciences and Geography mangagement group, University of Helsinki, Helsinki, Finland. Member, Department of Geosciences and Geography communications group, University of Helsinki, Helsinki, Finland. Vice director, Masters program in Geology and Geophysics, University of Helsinki, Helsinki, Finland. Leader, Department of Geosciences and Geography well-being group, University of Helsinki, Helsinki, Finland. Steering group member, Bachelor's Programme in Science (in English), University of Helsinki, Helsinki, Finland. Steering group member, Masters program in Geology and Geophysics, University of Helsinki, Helsinki, Finland. Preparatory group member, BSc of Science in English degree, University of Helsinki, Helsinki, Finland. Co-coordinator geoscience seminar, Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland. Department council member, Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland. Co-coordinator of Solid Earth Geophysics Masters program, Department of Geosciences and Geography, University of Helsinki, Helsinki, Finland. Graduate Student Mentor, Department of Geological Sciences, University of Michigan, Ann Arbor, Michigan, USA.

### Community outreach

Guest lecture, Kumpula Campus, University of Helsinki, Finland. Introduction to the geodynamics of the Himalayan orogen for visiting high school students from the Germal School Helsinki	2020
Guest lecture, Institute of Seismology, University of Helsinki, Helsinki, Finland.	2015
Introduction to my general areas of research on mountain evolution for visiting high school students from Tampere, Finland  Presenter, Science Bazaar, University of Helsinki, Helsinki, Finland.  Presentation on mountain systems to the audience of undergraduate	2013
students present for their orientation at the Kumpula Science Campus of the University of Helsinki	
Guest lecture, Melbourne High School, Melbourne, FL, USA. Introduction to the geology and culture of Nepal related to reading of Jon Krakauer's Into Thin Air for eleventh grade English students	2007

Geological Society of America American Geophysical Union

Languages Native: English

Basic: Finnish, French, German

Personal Birth date: 9 March 1980

Citizenship: USA

Residence: Finland (Permanent resident)

Last updated: December 2023