

Personal information

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E-mail	markus.stoffel@unige.ch
Date of birth	28 April 1974
Nationality	Swiss
Marital status	married, 2 children
Homepage	www.dendrolab.ch/en/ms.php ; www.c-cia.ch



Research Profiles

Google Scholar ID	https://scholar.google.ch/citations?user=nMIQpd0AAAAJ
Scopus Author ID	7102900542
Researcher ID	http://www.researcherid.com/rid/A-1793-2017
OrCID	0000-0003-0816-1303

Fields of excellence

- Climate change and climate impacts in the Anthropocene: reconstructions, observations and predictions
- Natural hazards and risks, integrated disaster risk management, incl. loss and damage and adaptation
- Changing cryosphere (glaciers, snow and ice), impacts on natural risk and water resources management
- Trees and shrubs in a changing climate – from individual plants through ecosystems to biodiversity
- Large volcanic eruptions and their impacts on climate and societies (subsistence crises)
- Media and communication sciences, outreach and dissemination
- Team and project management, fund raising (>21 million CHF since 2006), networking, PR

Education

02/2019	Certificate, EMBO Lab Leadership (Dr. CJ Fitzsimons, Leadership Sculptor, Germany)
12/2011	Habilitation thesis (<i>venia docendi</i>), Faculty of Sciences, University of Bern, Switzerland
07/2005	PhD, Department of Geosciences, University of Fribourg, Switzerland
04/2003	MSc, Media and Communication Sciences, University of Fribourg, Switzerland
04/1999	MSc Department of Geosciences, University of Fribourg, Switzerland
06/1996	BSc, Department of Geosciences, University of Fribourg, Switzerland

Institutional responsibilities

Vice-President of the Earth and Environment Section (SSTE, 2023–), Faculty of Sciences; **Board of Directors** (CODIR) of the Institute for Environmental Sciences (ISE, 2017–); **Chair** *Climate Change Impacts and Risks in the Anthropocene* (C-CIA, 2017–), **Director** of dendrolab.ch, University of Geneva (2000–).

President of the Research Commission of the Swiss National Park (SNP-FoK, 2020–), Swiss Academy of Sciences (scnat); **Board of Directors** of the Platform Science and Policy (SAP), scnat (2020–); **Scientific Steering Committee**: Interpraevent, Klagenfurt (Austria, 2008–); Natural Hazard Experts Switzerland (FAN, 2013–).

Employment history

08/2017 –	Full Professor , Chair for Climate Impacts and Risks in the Anthropocene (C-CIA), Institute for Environmental Sciences (ISE), University of Geneva
05/2016	Secundo loco for Full Professorship in “ <i>Environmental Systems Analysis</i> ”, Department of Geography, University of Cambridge, UK
05/2013 – 07/2017	Assistant Professor (sur fonds) , Department of Physics and Department of Earth Sciences, University of Geneva
12/2011 – 12/2016	Privatdozent (Lecturer with <i>venia legendi</i>), Faculty of Science, University of Bern
01/2009 – 11/2011	Oberassistent , Institute of Geological Sciences, University of Bern
02/2009 – 04/2013	Maître d’Enseignement et de Recherche , ISE, University of Geneva
10/2006 – 07/2009	Lehr- & Forschungsrat , Department of Geosciences, University of Fribourg
10/2006 – 01/2009	Chargé d’Enseignement , ISE, University of Geneva
07/2000 – 09/2006	Assistant , Department of Geosciences, Geography, University of Fribourg
07/2000 –	Founder and Director of the Swiss Tree-Ring Lab (www.dendrolab.ch)

Supervision and Teaching

In charge of **105 PhD/PostDocs** at Universities of Fribourg, Bern, and Geneva; **co-supervision** of PhD students at BFH Zollikofen; Castilla–La Mancha, Complutense Madrid (Spain); Cluj-Napoca (Romania), UNAM (Mexico), CAS Beijing and CAS Xinjiang (China); **coaching** of **>320 BSc** and **MSc students** at Universities of Fribourg, Bern, and Geneva; as well as co-supervision of MSc students at Universities of Lausanne, ETHZ (Switzerland); Bonn, Giessen, Frankfurt (Germany); BOKU Vienna (Austria), Gent (Belgium), Grenoble (France) since 2000.

External PhD jury member: Niklaus Barthlomé (University of Bern, ongoing), Arthur Bayle (Université Grenoble Alpes, 2024), Sazed Begam (IIT Kharagpur, 2019), Christophe Corona (**HDR**, Université Clermont-Auvergne, 2020), Sylvain Dupire (Université Grenoble Alpes, 2018), Adriano Fantini (Università Trieste, 2019), Adrien Favillier (Université Clermont-Auvergne, 2019), Loïc Francon (Université Clermont-Auvergne, 2020), Hippolyte Kern (Université Sorbonne, 2023), Barbara Kogelnig (BOKU Wien, 2013), Tatjana Milojevic (EPFL, 2024), Tiphaine Penchenat (Université de Versailles, 2022); Guillaume Thibaut Rohat (University of Twente, 2019), Isabella Schalko (ETH Zurich, 2018), Romain Schläppy (Paris-1 Sorbonne, 2014); René Wijngaard (Universiteit Utrecht, 2019); George Xexakis UniGE, 2022)

Coordinator of a **16-week** training on **Himalayan Glaciology, Hydrology, Climate and Hazards** at JNU Delhi (by mandate of Indian Ministry of Science and Technology and Swiss Development and Cooperation Agency; 2012–2017); coordinator of a **5-day scientific writing clinic** at Pontificia Universidad Católica del Perú and UNSAAC Cusco (Peru; by mandate of the Swiss Development and Cooperation Agency; 2013–2016); coordinator of a **5-day** in-depth training for **professional natural hazard experts** on hazard assessment (by mandate of the Swiss Federal Office for the Environment; 2019–)

Current teaching

Course ID	Title	Language	Level	Semester	Body	Role	ECTS
14E150	Climate Change	English	MSc	Fall	ISE	in charge	3
14E242	Climate Change in the Arctic	English	MSc	Spring	ISE	in charge	6
14E191	Climate Impacts	English	MSc	Spring	ISE	in charge	6
	Climate Change and Systemic Risks	English	MSc	Spring	ISE	contributing	3
14E219	Climate Impacts and Adaptation Strategies	English	MSc	Fall	ISE	in charge	6
14E201	Environnement alpin et sociétés (cours)	French	MSc	Fall	ISE	coordinator	12
12T209	Géomorphologie (cours et TP)	French	BSc	Spring	DESTE	in charge	2.5
12T209	Géomorphologie (excursion)	French	BSc	Fall	DESTE	In charge	1
12T400	Géobotanique	French	BSc	Fall	DESTE	contributing	
14E241	Stage “Sciences de l’environnement”	French	MSc	Annual	ISE	contributing	3
NA	Praxiskurs Gefahrenbeurteilung “Sturz”	German	PG	Spring	FAN	in charge	4 days

Abbreviations: CAS: Certificate of Advanced Studies; CERG-C: Certificate “Geological and Climate Related Risks”; DESTE: Department of Earth Sciences; FAN: Swiss Natural Hazard Experts; GSEM: Geneva School of Economics and Management; ISE: Institute for Environmental Sciences; MOOC: Massive Open Online Course; PG: Postgraduate.

Research projects (excerpt; >21 MCHF since 2006)

Amount	Funding agency	Title (Year, Role)
CHF 998'128	SNSF	HOOLGOYH: Deciphering long-term effects of global warming on permafrost instability in the Brooks Range, Alaska (2025–2029; PI)
CHF 53'000	SNSF	RECONSPHERE: Reconciling interhemispheric proxy-model inconsistencies in past-millennium temperature history using tree-ring anatomy (2024–2028; partner)
US\$ 24'900	WTW (Willis Limited)	TAMBORA 2.0: Possible impacts of a present-day, massive tropical volcanic eruption on climate on societies (2024, PI)
CHF 50'000	SPI Exploratory Grant	SLIPPERY SOILS – Slope instability In Polar PERmafrost - dYnamics of frozen debris IObes In the ALaskan BrookS Range (2023–25; PI)
CHF 42'461	SEFRI	HURACAN – High-resolution dendroanatomy for hydroclimate reconstructions in Southern South America (2023–25; PI)
CHF 22'000	SNSF	Travel grant for a research stay at University of Alaska–Fairbanks (2023)
CHF 735'085	Horizon Europe; SERI	AGORA – A Gathering place to cO-design and co-cReate Adaptation (2023–26; partner)
CHF 814'403	Horizon Europe; SERI	The HuT – The Human-Tech Nexus - Building a Safe Haven to cope with Climate Extremes (2022–26; partner)
CHF 24'990	SPI Koni Steffen Grant	Integrated natural risk management in Greenland (2022–2024; PI)
CHF 1'336'847	Horizon Europe; SERI	TRIGGER – Solutions for mtigating climate-induced health treatths (2022 – 26; partner)
N/A	SPI Flagship Initiative	PAMIR: Toward interdisciplinary understanding of climate change impacts on the Third Pole (2022–25; partner – project budget: CHF 1'500'000)
€ 12'000	Suomen Akatemia; LUKE, Turun yliopisto	FIRST – First integration of tree-ring chronologies, sediment records and historical data for paleoclimate reconstructions of seasonal temperature and precipitation variability in northern Europe (2021–26; partner)
CHF 199'998	BAFU	Sensitivity of snow avalanches and debris flows to climate change – contribution of historical and proxy data (2021–24; PI)
CHF 142'000	SDC (DEZA), Future Water	Developing a glacio-hydrological model and IWRM plan for a selected sub-basin in the Central Himalayas, Uttarakhand, India (2021–23, partner)
CHF 57'500	UZH-UniGE	IRAM3.0: Integrated risk assessment and management for resilient societies (2021; PI)
CHF 250'721	SDC (DEZA), Geotest	Disaster risk management planning and implementation support in the Indian Himalayan Region (2020–24, co-PI)
CHF 724'821	BAFU, FAN	PROTECT Praxis: Assessing the effects of structural, biological, organizational and spatial-planning protection measures (2020–24, PI)
CHF 261'429	SNSF	The Roman Egypt Lab: Climate Change, Societal Transformations, and the Transition to Late Antiquity (2021–25, partner)
CHF 199'678	SNSF Agora	ClimatIZENS : Past climates for future citizens (2020–23; co-PI)
CH 24'600	Canton GR	Avalanche dynamics God S-chür, F'tan (2020; PI)
CHF 216'500	SDC (DEZA), zoi	Adaptation@Altitude: Climate change adaptation in mountains (2020–23, partner)
CHF 91'174	SNSF SPARK	MNEMOSYNE: Constructing a multi-centennial mass balance record of Swiss glaciers with multi-proxy tree-ring series (2019–21; PI)
CHF 37,050	SDC (DEZA)	Strengthening climate adaptation capacities in the South Caucasus (2019–23, partner)
CHF 12'940	SEFRI	Understanding extreme events driven by climate and cryospheric change in the Caucasus (2018-20; PI)
CHF 55,000	SDC (DEZA)	Glacier lake outburst flood guidelines for India (2019, partner)
CHF 2'791'861	SNSF Sinergia	CALDERA: Effects of large voLcanic eruptions on climate and societies: Understand impacts of past events and related subsidence crises to evaluate potential future risks (2019–23; PI)
CHF 892,320	SNSF	TURBERAS: Reconstruction of Holocene hydro-climatic fluctuations based on multi-proxy peatland records (2019–23; PI)
CHF 20,320	SEFRI	A dendrogeomorphic reconstruction of glacial lake outburst flood processes in the Exploradores Valley, Chilean Patagonia (2018–19; PI)
€ 195,530	GIZ Germany	Integrated climate risk and vulnerability assessment in India (2018–19; PI)
US\$ 20,000	Yonsei Frontiers Lab	Toward sustainable drought management: lessons from multiple historical records (2018; co-PI)
CHF 49'705	BAFU, FAN	„Praxiskurs Gefahrenbeurteilung“: Education and advanced training of natural hazard specialists in Switzerland (2018–22; PI for “rockfall”)
CHF 25,000	SEFRI	Enhancing resilience against future extreme floods in Kashmir (2018, PI)
US\$ 162,250	IADB	Assessment of a climate-resilient water governance framework in the pluri-national State of Bolivia (2018–20; PI)

US\$ 145,000	UNEP	Land degradation neutrality in Georgia (2018–20; partner)
CHF 11,660	SDC (DEZA); arcowa	Nature-based Solutions for Water (NbSW): Mapping, assessment and design of a new initiative of SDC's GPW (2018; partner)
US\$ 72,380	FAO	Logframe development for an Integrated National Forest Inventory (NFI) in Myanmar (2017; PI)
CHF 205,000	BAFU, Canton VS	Prediction of future natural disasters using past climate analogues (2017–19; PI)
GB£ 307,100	NERC, DFID (SHEAR)	Science for Humanitarian Emergencies and Resilience: Citizen science for landslide risk reduction and disaster resilience building in mountain regions (2016–19; Co-PI)
US\$ 34,800	US NSF	Linking ecosystem and geomorphic processes to understand large-scale dynamics of tropical mountains mediated by landslides (2016–22; partner)
CHF 24'900	SEFRI	ARAUCARIA: Investigating the impacts of Andean volcanism on Eastern South American climate (2015–16; PI)
€ 970,500	H2020	ANYWHERE: Enhancing emergency management and response to extreme weather and climate events (2016–19; partner)
CHF 249,800	SDC (DEZA)	IHCAP2: Indian Himalayas Climate Adaptation Program (2016; PI)
CHF 516,888	BAFU	WOODFLOW: Integrated management of large wood in rivers (2015–20; PI)
CHF 196,500	SNSF (EraNet RUS+)	Effects of large volcanic eruptions on Eurasian climate & societies: unravel past evidence to predict future impacts (2015–18; PI)
CHF 183,700	BAFU	Integration of protection forests in risk-based assessments of rockfall hazards (2015–17; PI)
CHF 102,550	SNSF-ANR	ALIEN: Assessment of long terms effects of invading tree species on the protective function of forests against rockfall in Switzerland and France (2015–17; co-PI)
€ 55,200	Austrian Climate Research Fund	DEUCALION 2: Determining and visualizing Impacts of greenhouse climate rainfall in alpine watersheds on torrential disasters (2015 –18; co-PI)
CHF 99,600	SDC (DEZA)	Extreme flash-flood events in Jammu & Kashmir, Indian Himalayas (2015–16; PI)
JPY 2,700,000	Japan Society for Science Promotion	Toward systematic understanding of mountain landform dynamics: comparison between the Japanese and Swiss Alps (2014–16; partner)
CHF 237,200	SNSF	DEFenCC: Debris flow and outburst flood hazard in Tian Shan under impact of changing climate (2014–17; PI)
CHF 105,000	SDC (DEZA)	PACC II – Programa de adaptación al cambio climático (2013–16; partner)
CHF 187,000	Canton Valais	Frequency and climatology of extreme avalanches in the Goms Valley (2013–16; PI)
CHF 352,000	SDC (DEZA), seco	CLIMPEAT: Climate change in peatlands: Holocene record, recent trends and related impacts on biodiversity and sequestered carbon (2013–16; PI)
CHF 45,600	Canton of Valais	Climatic extremes and natural disasters in the Valais Alps from the Middle Ages to the time of instrumental measurements (2012–15; co-PI)
CHF 2,051,751	SDC (DEZA)	IHCAP: Indian Himalayas Climate Adaptation Program (2012–15; PI)
US\$ 24,000	UNDP	PETRA: Framework development for an integrated risk assessment in Petra, Jordan (2012; consultant)
CHF 415,000	SDC (DEZA), seco	FLORIST: Flood risk on the northern foothills of the Polish Tatra Mountains (2011–16; PI)
CHF 151,800	Canton Valais	Assessing rockfall trajectory frequencies and risks along roads (2011–13; PI)
€ 105,000	Austrian Climate Research Fund	DEUCALION: Determining and visualizing impacts of greenhouse climate rainfall in Alpine watersheds on torrential disasters (2011–13; co-PI)
€ 100,000	Era.Net Circle	ARNICA: Assessment of risk on transportation networks resulting from slope instability and climate change in the Alps (2010–12; co-PI)
€ 473,000	EU-FP7	HIGH NOON: Adaptation to changing water availability in Northern India with Himalayan glacier retreat and changing monsoon pattern (2009–12; WP leader)
€ 605,000	EU-FP7	ACQWA: Assessing climatic change and impacts on quantity and quality of water (2008–13; project coordinator)
CHF 346,000	BAFU; Canton VS	RUFINE: Debris-flow hazard mitigation in Valais (2006–13; PI)

Reviewing activities

Editor-in-Chief of *Geomorphology* (Elsevier; 2009–2025); *Euro-Mediterranean Journal for Environmental Integration* (Springer Nature; 2017–2023), Springer Nature book series *Advances in Global Change Research* (2017–)

Editorial Board member of *Boletín Geológico y Minero*, *Physical Geography*, *Annals of the American Geographers*

Guest editor: *Anthropocene*, *Earth-Surface Processes and Landforms*, *Environment International*, *Environmental Science & Policy*, *Geomorphology*, *Journal of Hydrology*, *Natural Hazards and Earth System Sciences*, *Science of the Total Environment*.

Referee for 70 peer-reviewed ISI journals: *Agricultural and Forest Meteorology*, *Anthropocene*, *Applied Geography*, *Arctic Antarctic and Alpine Research*, *Climate Dynamics*, *Climatic Change*, *Comptes rendus de l'Académie des Sciences*, *Earth and Planetary Science Letters*, **Earth-Science Reviews**, *Earth Surface Processes and Landforms*, *Earth System Dynamics*, *Ecological Engineering*, *Earth's Future*, *Ecology*, *Environment Development and Sustainability*, *Environment International*, *Environmental Research Letters*, *Resources, Environment and Sustainability*, *Environmental Science and Policy*, *Forest Ecology and Management*, *Frontiers of Earth Science*, *Geochronometria*, *Geografiska Annaler*, *Geographia Polonica*, *Geographica Helvetica*, *Geographical Bulletin*, *Géographie physique et Quaternaire*, *Geography Compass*, *Geoheritage*, *Geology*, *Geomatics*, *Natural Hazards and Risk*, *Geomorphology*, *Geophysical Research Letters*, **Global Change Biology**, *The Holocene*, *Hydrology and Earth System Sciences*, *iForest*, *International Journal of Biometeorology*, *International Journal of Climatology*, *International Journal of Disaster Risk Reduction*, *Journal of Biogeography*, *Journal of Environmental Management*, *Journal of Forestry Research*, *Journal of Geography in Higher Education*, *Journal of Geophysical Research*, *Journal of Hydrology*, *Journal of Mountain Science*, *Journal of Volcanology and Geothermal Research*, *Landslides*, *Landscape and Urban Planning*, *Moravian Geographical Reports*, *Natural Hazards*, *Natural Hazards and Earth System Sciences*, *Natural Resources Forum*, **Nature**, **Nature Climate Change**, **Nature Communications**, **Nature Geoscience**, **Nature Plants**, *Permafrost and Periglacial Processes*, *Physics and Chemistry of the Earth*, *Regional Environmental Change*, *Revista de la Asociación Geológica de Argentina*, *Open Geology Journal*, *Palaeo-3*, *Physical Geography*, **Proceedings of the National Academy of Sciences**, *Progress in Physical Geography*, *Quaternary Research*, *Quaternary Science Reviews*, **Reviews of Geophysics**, *Science of the Total Environment*, *Scientific Reports*, *Schweizerische Zeitschrift für Forstwesen*, **Science Advances**, **Science Bulletin**, *Sensors*, *Sustainability*, *Terra Nova*, *Tree-Ring Research*, *Tree Rings in Archeology*, *Climatology and Environment*, *Trees – Structure and Function*, *Vadose Zone Journal*, and *Water Resources Research*.

Commissions and memberships

President, Research Commission of Swiss National Park, Swiss Academy of Sciences (scnat; www.naturwissenschaften.ch/organisations/fok-snp; 2020–; committee member since 2013)

President scientific steering committee *Internationales Forschungsinstitut zur Geschichte des Alpenraums*, Brig, Switzerland (www.stockalperstiftung.ch/forschungsinstitut; 2012–)

Board of Directors Platform Science & Policy (SAP), scnat (www.naturalsciences.ch/organisations/sap; 2020–)

Vice President International Tree-Ring Society (www.treeringsociety.org; 2010–2014),

Scientific Steering Committees: Interpraevent, Klagenfurt (www.interpraevent.at; 2008–), Swiss Natural Hazard Experts (FAN; www.fan-info.ch; 2014–), Vallesiana (www.vallesiana.ch; 2017–2022).

Elected member, **Academia Europaea** (www.ae-info.org/; 2018–); **Lifetime member**, Tree-Ring Society (TRS)

Grant assessor for: Agence Nationale de Recherche France (**ANR**), Agencia Nacional Promoción Científica y Técnica, Argentina (**ANCPyT**), Austrian Academy of Sciences (**OeAW**), Austrian Climate Research Program (**ACRP**), Austrian Science Fund (**FWF**), Belmont Forum Grant Operations (**BFGO**), Czech Science Foundation (**GACR**), Deutsche Forschungsgemeinschaft (**DFG**), EU Framework Program (**EU-FP6**, **FP7**; **H2020**), European Science Foundation (**ESF**), EU-COST ESSEM Actions, Fonds voor Wetenschappelijk Onderzoek Vlaanderen (**FWO**), Icelandic Research Fund (**IRF**), Italian Ministry of Education, Universities and Research (**MIUR**), National Geographic Society (**NGS**), Netherlands Organisation for Scientific Research (**NWO**), Swiss National Science Foundation (**SNF**), SNSF **Eccellenza** Professorial Fellowships, U.S. National Science Foundation (**NSF**).

Awards

12/2021

Water Resources Research (American Geophysical Union) 2020 Editors' Choice Award for research paper *Water Resour. Res.* 56, 7 doi:10.1029/2019WR026221)

01/2018

CHOICE Book Award for Outstanding Academic Title: *International Encyclopedia of Geography* for which M. Stoffel served as one of the editors.

05/2016	Nomination for the 2017 Bower Award and Prize for Achievement in Science for work on Perturbation of Systems in the Anthropocene, Franklin Institute, Philadelphia, U.S.
04/2016	International Tree-Ring Society José Boninsegna Frontiers in Dendrochronology Award for significant contributions to cutting-edge science in dendrochronology, AmeriDendro Meeting, Mendoza
04/2015	American Association of Geographers (AAG) Denali Recent Achievement Award for excellence in research on climate impacts on mass movements, AAG Meeting Chicago
11/2010	Distinguished Professor (<i>Professor honoris causa</i>) in Physical and Technical Geography , Facultatea de Geografie, Universitatea Babeş-Bolyai, Cluj-Napoca, Romania
02/2006	Award for best PhD thesis in Experimental Sciences at the Faculty of Science, University of Fribourg, Fribourg
11/2005	CHGEOL Award for the best application-oriented study conducted in Geosciences, Swiss Geosciences Meeting 2005, Zurich

International work experience (excerpt)

2023–	Alaska: Climate change impacts on permafrost thawing and mass movements in the Alaska and Brooks ranges; climate reconstructions in the Gulf of Alaska and Gates of the Arctic NP: University of Alaska–Fairbanks (UAF), Swiss Polar Institute (SPI), Swiss National Science Foundation (SNF)
2019–24	Caucasus: Strengthening climate adaptation capacities in the South Caucasus through DRR and land degradation neutralization: UNEP (GEF), Swiss Development and Cooperation Agency (SDC)
2018–20	Bolivia: Assessment of a climate-resilient water governance framework in the pluri-national State of Bolivia: Inter-American Development Bank (IDB)
2016–21	Nepal: Citizen science for landslide risk reduction and disaster resilience building in mountain regions (SHEAR: UK NERC and DFID); in collaboration with Imperial College London, Wageningen
2016–23	Guatemala: large-scale dynamics of tropical mountains mediated by landsliding: US National Science Foundation (NSF); in collaboration with University of Puerto Rico
2011–17	Polish Tatras: hazard and risks assessment of extreme future floods – in collaboration with the Polish Academy of Sciences (PAS) and the University of Silesia
2012–	Indian Himalayas: climate change impacts on glaciology, hydrology, natural disasters and risks: by mandate of EU-FP7, Swiss Development and Cooperation Agency (SDC), German International Cooperation (GIZ), Indian Department of Science and Technology (DST)
2009–23	Romanian Carpathians: hazard and risk assessment for mass-movement processes and intoxication of forests: in collaboration with the Universitatea Babeş-Bolyai (UBB), Cluj-Napoca
2009–	Patagonia: climate reconstructions; hazard and risk analysis originating from mass wasting processes: in collaboration with Instituto Argentino de Nivología, Glaciología y Ciencias Ambientales (IANIGLA), Mendoza, Aysén University (Chile) and University of Western Ontario (UWO), Canada; Swiss Institute for Forest, Snow and Landscape Research (WSL)
2009–12	Ganga basin: climate change impacts on glacier melt and glacier-lake outburst floods in the Ganga – adaptation and mitigation: in collaboration with British MetOffice, MPG Hamburg, Wageningen UR, Salford University, TERI and IITD (India), Nagoya University.
2008–15	Austrian Alps: hazard assessment and risk mitigation of debris flows: by mandate of the Austrian Ministry of Agriculture, Forestry, Environment & Water Management (BMLFUW) and the Austrian Climate Research Programme (ACRP)
2008–19	Tien Shan: climate change impacts on glaciers, rock glaciers and natural disasters (GLOFs): EU-FP7, Swiss National Science Foundation (SNF); in collaboration with the Kyrgyz and Uzbek National Academies of Science (KNAS / UNAS).
2008–22	Transmexican volcanic belt: assessment and mitigation of lahar risks on Popocatepetl and Colima volcanoes: in collaboration with Universidad Nacional Autónoma de México, México (UNAM).
2007–21	Sistema Central, Spain: risk assessment of flash floods: by mandate of Ministerio de Educación y Ciencia (Instituto Geológico y Minero de España IGME).
2003	Bhutan: ground truthing of remotely-sensed land-use data for the Danish Development Agency (DANIDA) and the Ministry of Agriculture (MoA), Bhutan.
2001–02	High Atlas (Morocco): fieldwork for the Swiss Development Agency (SDC) and publication of one of the Swiss contributions to the “ <i>International Year of Mountains 2002</i> ” presented at “ <i>The World Summit on Sustainable Development</i> ” in Johannesburg in 2002.

Media and communication

Visibility in the media: >470 reports in national and international newspapers, interviews for radio stations (BBC, SRF1, SRF3, Couleur3, Oe1, TSR1, ONE FM, Radio Rottu, etc) and contributions aired in international broadcasting (ARD, SRF1, TSR, TSI). An overview of newspaper reports can be found at www.dendrolab.ch/en/media.php

Personal media experience

- 1999–2001 Freelance journalist for bi-monthly periodical *WBextra*
- 1996–1998 Trainee and freelance journalist for daily newspaper *Walliser Bote* (<http://www.1815.ch>)
(>70 published contributions)
- 1993–1995 Freelance radio journalist for *Radio Rottu Oberwallis* (www.rro.ch)

Publication list

Personal impact according to Google Scholar (8 October 2024)

396 peer-reviewed ISI indexed papers

Sum of the times cited: 28,010 (h index: 88; i₁₀ index: 334)

(Co-) Editor of 8 journal special issues and 8 textbooks (incl. Springer, Elsevier, Wiley)

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Scopus Author ID: 7102900542

ResearcherID: www.researcherid.com/rid/A-1793-2017

Peer-reviewed ISI papers

My "Top 10" publications

- STOFFEL et al., 2024. Rockfall from an increasingly unstable mountain slope driven by climate warming. *Nature Geoscience* **17**, 249–254.
- Björklund et al., 2023. Fennoscandian tree-ring anatomy shows a warmer modern than medieval climate. *Nature* **620**, 97–103.
- Guillet et al., 2023. Lunar eclipses illuminate timing and climate impact of medieval volcanism. *Nature* **616**, 90–95.
- Zheng et al., 2021. Increasing risk of glacial lake outburst floods from future Third Pole deglaciation. *Nature Climate Change* **11**, 411–417.
- Ballesteros-Cánovas et al., 2018. Climate warming enhances snow avalanche risk in the Western Himalayas. *Proceedings of the National Academy of Science* **115**, 3410–3415.
- STOFFEL M, Corona C, 2018. Future winters glimpsed in the Alps. *Nature Geoscience* **11**, 458–460.
- STOFFEL et al., 2015. Estimates of volcanic-induced cooling in the Northern Hemisphere over the past 1,500 years. *Nature Geoscience* **8**: 784–788.
- Gobiet et al., 2014. 21st century climate change in the European Alps – A review. *Science of the Total Environment* **493**, 1138–1151.
- STOFFEL M, Corona C, 2014. Dendroecological dating of geomorphic disturbance in trees. *Tree-Ring Research* **70**, 3–20.
- Bolch et al., 2012. The state and fate of Himalayan glaciers. *Science* **336**: 310–314.

in press

- [396] Mani, P., Allen, S., Bavay, M., Hählen, N., STOFFEL, M., **in press**. Disposition model for permafrost degradation in mountainous regions. *Permafrost and Periglacial Processes*.
- [395] Gorsic, S., Corona, C., Muñoz-Torrero Manchado, A., Lopez-Saez, J., Allen, S., Ballesteros-Cánovas, J.A., Dussaillant, A., STOFFEL, M., **in press**. Reconstructing a hitherto neglected, massive glacier lake outburst flood from the 1950s at Grosse glacier, Chilean Patagonia. *Science of the Total Environment*.
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