

Markus Mosimann

CURRICULUM VITAE

University of Bern
Institute of Geography
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EDUCATION

- Sep 2013– Feb 2016 **Master of Science in Geography, University of Bern**
Master thesis (2016): „*Erhebung der regionalen Hochwasser-Vulnerabilität im Simmental*“ – „*Assessment of the regional flood vulnerability in the Simmental*“
- Sep 2010 –Feb 2014 **Bachelor of Science in Geography, University of Bern**
Minor in Biology

PUBLICATIONS

- Keller, Luise; Zischg, Andreas Paul; **Mosimann, Markus**; Rössler, Ole; Weingartner, Rolf; Martius, Olivia (2019). ***Large ensemble flood loss modelling and uncertainty assessment for future climate conditions for a Swiss pre-alpine catchment.*** Science of the total environment, 693, S. 133400. Elsevier 10.1016/j.scitotenv.2019.07.206
- Bernet, Daniel Benjamin; Trefalt, Simona; Martius, Olivia; Weingartner, Rolf; **Mosimann, Markus**; Röthlisberger, Veronika Eva; Zischg, Andreas Paul (2019). ***Characterizing precipitation events leading to surface water flood damage over large regions of complex terrain.*** Environmental Research Letters, 14(6), 064010. IOP Publishing 10.1088/1748-9326/ab127c
- Mosimann, Markus**; Frossard, Linda; Keiler, Margreth; Weingartner, Rolf; Zischg, Andreas Paul (2018). ***A Robust and Transferable Model for the Prediction of Flood Losses on Household Contents.*** Water, 10(11), S. 1596. MDPI 10.3390/w10111596
- Zischg, Andreas Paul; Felder, Guido; **Mosimann, Markus**; Röthlisberger, Veronika; Weingartner, Rolf (2018). ***Extending coupled hydrological-hydraulic model chains with a surrogate model for the estimation of flood losses.*** Environmental modelling & software, 108, S. 174-185. Elsevier 10.1016/j.envsoft.2018.08.009
- Zischg, Andreas Paul; Hofer, Patrick; **Mosimann, Markus**; Röthlisberger, Veronika; Ramirez, Jorge Alberto; Keiler, Margreth; Weingartner, Rolf (2018). ***Flood risk (d)evolution: Disentangling key drivers of flood risk change with a retro-model experiment.*** Science of the total environment, 639, S. 195-207. Elsevier 10.1016/j.scitotenv.2018.05.056
- Ingold, Karin; **Mosimann, Markus**; Röthlisberger, Veronika Eva (5 Februar 2018). ***How floods shape policies: studying exposure to and perception of flood risks, and comparing them with policy preferences (unpublished).*** In: Annual Conference of the Swiss Political Science Association - «International Migration Governance: Chances and Limits». Geneva, Switzerland. 05.02.-06.02.2018.
- Zischg, Andreas Paul; **Mosimann, Markus**; Bernet, Daniel Benjamin; Röthlisberger, Veronika (2018). ***Validation of 2D flood models with insurance claims.*** Journal of hydrology, 557, S. 350-361. Elsevier 10.1016/j.jhydrol.2017.12.042
- Mosimann, Markus**; Thomi, Luzius; Röthlisberger, Veronika Eva; Keiler, Margreth; Zischg, Andreas Paul (2017). ***1.1 Millionen Menschen leben in der Schweiz in Hochwassergebieten.*** Wasser Energie Luft, 109(3), S. 191-196. Schweizerischer Wasserwirtschaftsverband

EMPLOYMENT

Mar 2016– today	Mobiliar Lab for Natural Risks <i>Research associate (100%)</i> Transfer of research results to products for the general public by developing interactive tools (= implementation projects, www.risikodynamik.ch; www.hochwasserrisiko.giub.unibe.ch), data management and processing, hydraulic modelling, flood vulnerability and risk assessment, working on research papers
Jan 2016– Feb 2016	Cantonal Office for Agriculture and Nature <i>Civil Service (100%)</i> Processing of spatial data with ArcGIS, coordination of contract negotiations
Jan 2015–Dec 2015	Cantonal Office for Water and Waste, Water Regulation <i>Internship (30%)</i> Development of exercises for natural hazard consultants for a better integration to staff work
Oct2010– Dec 2014	Coop (retail company) <i>Temporary employee (20-40%)</i>
Mar2010 –Aug 2010	Child day-care center <i>Civil service (100%)</i>
Oct2009 –Mar 2010	Retirement home <i>Civil service (100%)</i>

TEACHING ACTIVITIES

Jun 2016 - today	Irregular collaboration in lectures, field courses or seminars, support of Master students at the Institute of Geography
2010 - 2014	Substitutional teacher, 3x 1-4 weeks

COMPUTER SKILLS

Programming	High level of competency in using R, Python, JavaScript, HTML, CSS, basic level in SQL (on PostgreSQL), LaTeX
GIS	High level of competency in using ArcGIS, QGIS and PostGIS (together with Python)
Microsoft Office	Word, Excel, Powerpoint, Outlook