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KATRINA KREMER

Born in Göttingen (Germany), April 8th 1985
Citizenships: German

CONTACT INFORMATION

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ACTUAL POSITION

02/2010-present PhD Student in Limnogeology, **University of Geneva**
Project *Quantifying human impact and recent climate change using clastic sediments from lacustrine records in Western Switzerland" (SNF nr. 200021-121666/1).* Advisor: Dr. S. Girardclos.

EDUCATION

2012 ECORD Summer School on **Submarine Landslides, Earthquakes and Tsunami**, Bremen, Germany.

2007-2009 MSc in Geology, Georg-August University of Göttingen
Topic **Patagonian fjord sediment core as Holocene climate archive.**
 Advisors: Prof Dr. G. Wörner & Prof. Dr. V. Thiel.

2004-2007 BSc in Geology, Georg-August University of Göttingen
Topic **Zyklische Verteilung der Spurenelementverteilung am Stalagmit MA-1 aus Süd-Patagonien** (Cyclic variation of trace elements in MA-1 Stalagmite from South-Patagonia). Advisors: Wörner G. & Simon K.

ACADEMIC EXPERIENCE

TEACHING

10/2010-present Introduction to excel, (MUSE, University of Geneva)

TEACHING ASSISTANT

02/2010-present Hydrology, Master of environmental Sciences (MUSE, University of Geneva)

02/2010-present Limnogeology (UNIGE, Prof. Dr. D. Ariztegui)
 Seismo-stratigraphy (UNIGE, Prof. Dr. A. Moscariello)

2007-2009 Microscopy of minerals (GZG Göttingen, Dr. A v. Kerkhof)
Quantification of geochemical processes with Excel (GZG, Göttingen, Prof. Dr G. Wörner)

LABORATORY ASSISTANT

FIELDWORK EXPERIENCE

02/2010-10/2010	Seismic survey, short and long sediment coring campaign in Lake Geneva (Switzerland) for PhD thesis
	Seismic survey and short sediment coring campaign in Lake Bienne (Switzerland)
08/2008-09/2008	Fieldwork in the fjords of South Patagonia on the Gran Campo II ship of appl. Prof. Dr. Rolf Kilian

PUBLICATIONS

Kremer K, Marillier F, Hilbe M, Simpson G, Dupuy D, Yrro B, Rachoud-Schneider A—M, Corboud P, Bellwald B, Wildi W, Girardclos S, Pile dwellers occupation gap in Lake Geneva (France-Switzerland) possibly explained by an earthquake – slide- tsunami event during Early Bronze Age, *under revision in EPSL*.

Kremer K, Simpson G. and Girardclos S. (2012) Giant Lake Geneva tsunami in AD 563, *Nature Geoscience*, 5:11, 756-757.

Girardclos S., Hilbe M., Corella J.P., Loizeau J.L., **Kremer K.**, T. D., Arantegui A., Moscariello A., Arlaud F., Akhtman Y., Anselmetti F.S. and Lemmin U. (2012). Searching the Rhone delta channel in Lake Geneva since François-Alphonse Forel. *Archives des Sciences*, 65, 103-118.

Pack A., **Kremer K.**, Albrecht N., Simon K. and Kronz A. (2010) Description of an aerodynamic apparatus with applications in Earth Sciences, *Geochemical Transactions*, 11:4.

PRESENTATIONS

ORAL PRESENTATIONS

Kremer K. et al. (2013), "Tsunamis in Lake Geneva? Lake sediments as archives of geological hazards" Quarterly Seminar Series on Disasters, Resilience and Eco-solutions at PEDRR/UNEP, Geneva (Switzerland).

Kremer K., Blé Y., Marillier F., Hilbe M., Corboud P., Rachoud-Schneider A.-M., Girardclos S., 2013. A catastrophic event in Lake Geneva region during the Early Bronze Age? *EGU meeting*, Vienna (Austria), EGU2013-4800

Kremer K., Marillier F., Simpson G. and Girardclos S., (2012), History of mass movements in Lake Geneva during the last 4000 years. Invited conference for the Sedimentology seminar at ETH Zurich (Switzerland).

Kremer K., Simpson G. and Girardclos S. (2012), Large mass movement deposit and Tsunami in Lake Geneva (Switzerland-France) caused by a rockslide in 563 AD, European Geoscience Union General Assembly 2012, Vienna (Austria).

Kremer K. and Girardclos S. (2012), History of mass movement deposits in deep Lake Geneva during the last 3000 years, COGEAR Meeting 2012, invited talk.

Kremer K. and Girardclos S. (2011), Mass movement deposit in Lake Geneva sediments caused by the Tauredunum rockslide (563 AD), Nineteenth Meeting of Swiss Sedimentologists 2011, Fribourg (Switzerland).

Kremer K. and Girardclos S. (2011), Lake Geneva sediments as an archive of mass movements since the last 4000 years, Journée Lémanique 2011.

Kremer K. and Girardclos S. (2011), Lake Geneva sediments as archive of floods and mass-movements during the past 4000 years, Seminar of the Institute FA Forel, 01/2011, University of Geneva.

Kremer K. (2010), Stalagmites and fjord sediment cores from South-Patagonia as Holocene climate archives, Seminar of the Department of Geology and Paleontology, 03/2010, University of Geneva.

POSTER PRESENTATIONS

Kremer K., Corella J.P., Girardclos S., 2013. Lake Geneva sediments: Archive for past environmental changes and human activity during the last 3000 years. *EGU meeting*, Vienna (Austria), EGU2013-4835.

Correia Demand J., Marillier F., Blé Y. **Kremer K.**, Girardclos S., 2013. Large mass movements, probably earthquake triggered, in Lake Geneva off the city of Lausanne revealed by seismic and sediment coring data. *EGU meeting*, Vienna (Austria), EGU2013-5657.

Jeannet A., Corella J.P., Reusch A., **Kremer K.**, Girardclos S., 2013. Lake Biel sediment record during the last 7500 years and impact of the Aare river deviation in 1878 AD. *EGU meeting*, Vienna (Austria), EGU2013-4027.

Kremer K., Corella J.P., Girardclos S., 2013. Lake Geneva sediments as archive for past environmental changes and human activity during the last 3000 years. *4th PAGES Open Science Meeting*, Goa (India). OSM02-33 p. 64.

Kremer K., Corella J.P., Girardclos S., 2013. Lake Geneva sediments as archive for past environmental changes and human activity during the last 3000 years. *PAGES 2nd Young Scientists Meeting*, Goa (India). YSM04-02 p. 42.

Kremer K., Corella J.P. and Girardclos S., 2012. Lake Geneva sediments as archive for past environmental changes and human activity during the last 3000 years. *10th Swiss Geoscience Meeting*, Bern (Switzerland), p. 329.

Kremer K., Marillier F. and Girardclos S. (2011), History of mass movement deposit in deep Lake Geneva during the last 3000 years, Swiss Geoscience Meeting 2011, Zurich (Switzerland).

Jeannet A., Corella J.P., **Kremer K.**, Girardclos S., 2012. Lake Biel sediment record during the last 7500 years and impact of the Aare river deviation in 1878 AD. *10th Swiss Geoscience Meeting*, Bern (Switzerland), p.331.

Kremer K. and Girardclos S. (2010), Giant sub-lacustrine mass movement in Lake Geneva sediment record induced by the Tauredunum rockslide?, Swiss Geoscience Meeting 2010, Fribourg (Switzerland).

Kilian, R., Arz, H., Lamy, F., Schimpf, D., Mangini, A., Wörner, G., **Kremer K.**, Kronz, A. and Simon, K. (2011), High resolution Holocene storm records from the southern Hemispheric Westerly zone. XVIII INQUA meeting 2011, Bern (Switzerland).

Kilian, R., Lamy, F., Arz, H., Kaiser, J., Baeza, O., Caniupan, M., Aracena, C., Lange, C., **Kremer K.**, Schimpf, D. and Mangini, A. (2010), Control mechanism for Neoglacial glacier advances in the superhumid southernmost Andes 50-53°S. GEO-Darmstad 2010, Darmstadt (Germany).

Kremer K., Thiel V., Kilian R., Wörner G. (2009), Patagonian fjords sediments as archive for Holocene environmental and climate changes (Bahia Williams, 53°S), Geologische Vereinigung- Meeting 2009, Göttingen (Germany).

GRANTS & AWARDS

04/2012	Grant from IGCP-585 project for the participation in "Submarine Landslides: Mechanisms, Processes and their sedimentary record" Session (NH3.9) at the European Geoscience Union General Assembly 2012 in Vienna (Austria)
11/ 2009	Adolf von Koenen Award for the best master/diploma thesis of the Faculty of Geology Göttingen 2009

LANGUAGES

German, French	Native language
English, Wolof (Senegal)	Fluent
Spanish	Conversational

COMPUTER SKILLS

Microsoft Office, Adobe Illustrator, Adobe Photoshop, Arc GIS, SPW, Kingdom Suite, Sigmaplott
Petrel, Matlab, R (Basics)