

## CV

KATRINA KREMER

Born in Göttingen (Germany), April 8<sup>th</sup> 1985

Citizenships: German

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### CONTACT INFORMATION

Section of Earth and Environmental Sciences  
13, Rue des Maraîchers  
1205 Geneva-Switzerland

University of Geneva  
Phone: +41 22 379 31 64  
e-mail: [katrina.kremer@unige.ch](mailto:katrina.kremer@unige.ch)

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### ACTUAL POSITION

02/2010-present <u>Project</u>	PhD Student in Limnogeology, <b>University of Geneva</b> <i>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.</i>
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### EDUCATION

2012	ECORD Summer School on <b>Submarine Landslides, Earthquakes and Tsunami</b> , Bremen, Germany.
2007-2009 <u>Topic</u>	MSc in Geology, Georg-August University of Göttingen <b><i>Patagonian fjord sediment core as Holocene climate archive.</i></b> Advisors: Prof Dr. G. Wörner & Prof. Dr. V. Thiel.
2004-2007 <u>Topic</u>	BSc in Geology, Georg-August University of Göttingen <b><i>Zyklische Verteilung der Spurenelementverteilung am Stalagmit MA-1 aus Süd-Patagonien</i></b> (Cyclic variation of trace elements in MA-1 Stalagmite from South-Patagonia). Advisors: Wörner G. & Simon K.

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### ACADEMIC EXPERIENCE

#### TEACHING

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

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#### LABORATORY ASSISTANT

2007-2010                      Geochemistry, GZG Göttingen, Prof. Dr. G Wörner. in collaboration  
with appl. Prof. Dr. R. Kilian (University of Trier, Germany):  
*Stalagmite and Seasediments from the Southern Andes as climate  
archive for variability of the westerlies*

2006/2007                      Geochemistry, GZG Göttingen, Prof. Dr. H. Ruppert

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#### 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

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#### 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.

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## 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-Darmstadt 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).

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#### 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

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## LANGUAGES

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

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## COMPUTER SKILLS

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