

## **Short Curriculum Vitae (Sept 2019)**

**Dr. rer. nat. Elisabeth Dietze**, née Zießler

Born 06<sup>th</sup> December 1981, Stollberg/Erzg., Germany; married, two children

### **Professional Experience**

Since 09/2018	Postdoctoral Researcher, Polar Terrestrial Environmental Systems, Alfred-Wegener-Institute Helmholtz Center for Polar and Marine Research, Potsdam, Germany, Long-term NE Siberian fire reconstruction at Lake El'gygytgyn, funded by DFG since 03/2019
Since 03/2018	Guest Postdoctoral Researcher, Section 3.2 Organic Geochemistry, German Research Centre for Geosciences (GFZ) Potsdam, Germany, CEL paleofire project
03/2016-03/2018	Postdoctoral Researcher, Section 5.2 Climate dynamics and landscape evolution, GFZ Potsdam, Germany, CEL paleofire project
03/2016-09/2016	Guest Postdoctoral Researcher, Department of Marine Microbiology and Biogeochemistry, Royal Netherlands Institute for Sea Research (NIOZ), Texel, The Netherlands, CEL paleofire project
12/2012-02/2016	Postdoctoral Researcher, Section 5.2 Climate dynamics and landscape evolution, GFZ Potsdam, Germany (incl. 13 months of maternal leave), ICLEA water level project
10/2012-02/2013	Teaching Assistant, Institute for Geography, Technical University Dresden, Germany
08/2008-09/2012	Research Assistant, Institute for Geographical Sciences, Free University Berlin (incl. 13 months of maternal leave), DFG-SPP Tibetan Plateau project
05/2007-08/2008	Research Assistant, Technical University Dresden, Germany
05/2007-07/2007	Research Assistant, Paul-Scherrer-Institut Villigen, Switzerland

### **Education**

11/2012	Dr. rer. nat., Geographic Sciences, Free University Berlin; Thesis "Water level changes and related sedimentary environments at Lake Donggi Cona, northeastern Tibetan Plateau, China", Magna cum laude
04/2007	Diploma in Geography (minors: Forest Ecology, Political Sciences), Technical University Dresden, Germany; Thesis „Regional climate and isotope signals in ice of the subtropical Andes in „normal“- and ENSO-periods“, grade: 1,1
06/2005	Supplementary studies Regional Sciences of Latin America, Technical University Dresden, Germany, grade: 1,0

### **Awards and travel grants**

2019	Geo.X travel award: EGU, Vienna, Austria; INQUA travel award: INQUA Congress, Dublin, Ireland
2018	DAAD travel grant: CANQUA/AMQUA Meeting, Ottawa, Canada; travel grants by Geo.X and AK Geomorphology: EGU, Vienna, Austria
2016	PAGES travel grants: Paleofire working group meetings, Bordeaux, France & Frankfurt, Germany
2014	EGU Young Scientist's Travel Award
2013	Best talk Award, Annual meeting of AK Geomorphology, Eichstätt, Germany
2012	PAGES and IAS travel grants, PAGES YSM and OSM Meeting, Goa, India
2011	Nature Geoscience Poster Award, INQUA Congress, Bern, Switzerland
2007	Lohrmann Medal of the Technical University Dresden, Germany, for outstanding achievements during the studies

## Academic and Scientific Services

**Associate editor**, E&G Quaternary Science Journal (since 2019)

**Science Officer**, EGU Climate Division and EGU-GA session convener (since 2018/2019)

**Scientific Advisory Board member**, German Working Group (AK) Geomorphology (since 2018)

**Journal reviewer**: The Holocene; Journal of Quaternary Sciences; Sedimentology; Earth Surface Processes and Landforms; Geochemistry, Geophysics, Geosystems; Palaeogeography, Palaeoclimatology, Palaeoecology; Quaternary International; Catena; among others

**Memberships**: German Working Group (AK) Geomorphology; PAGES Global Paleofire Working Group; Board Member NGO Cambugán Foundation, Ecuador

**National & international conferences, university colloquia**: >25 talks (10 invited), >25 posters

## Journal publications (13 selected, Sept 2019), +2 coauthor papers in review

**Dietze, E.**, Brykała, D., Schreuder, L.T., Jażdżewski, K., Blarquez, O., Brauer, A., Dietze, M., Obremska, M., Ott, F., Schouten, S., Hopmans, E.C., Słowiński, M., **accepted**. Human-induced fire regime shifts during 19th century industrialization: a robust fire regime reconstruction using northern Polish lake sediments. PLOS ONE, doi: journal.pone.0222011

**Dietze, E.**, Dietze, M., 2019. Grain-size distribution unmixing using the R package EMMAgeo. E&G Quaternary Sci. J. 68, 29-46.

Słowiński, M., Lamentowicz, M., Łuców, D., Barabach, J., Brykała, D., Tyszkowski, S., Pieńczewska, A., Śnieszko, Z., **Dietze, E.**, Jażdżewski, K., Obremska, M., Ott, F., Brauer, A., Marcisz, K., **2019**. Paleocological and historical data as an important tool in ecosystem management. Journal of Environmental Management 236, 755-768.

Heinrich, I., Balanzategui, D., Bens, O., Blasch, G., Blume, T., Böttcher, F., Borg, E., Brademann, B., Brauer, A., Conrad, C., **Dietze, E.**, Dräger, N., Fiener, P., Gerke, H.H., Güntner, A., Heine, I., Helle, G., Herbrich, M., Harfenmeister, K., Heußner, K.-U., Hohmann, C., Itzerott, S., Jurasinski, G., Kaiser, K., Kappler, C., Koesch, F., Liebner, S., Lischeid, G., Merz, B., Missling, K.D., Morgner, M., Pinkerneil, S., Plessen, B., Raab, T., Ruhtz, T., Sachs, T., Sommer, M., Spengler, D., Stender, V., Stüve, P., Wilken, F. **(2018)**. Interdisciplinary Geo-ecological Research across Time Scales in the Northeast German Lowland Observatory (TERENO-NE). *Vadose Zone Journal* 17.

**Dietze, E.**, Theuerkauf, M., Bloom, K., Brauer, A., Dörfler, W., Feeser, I., Feurdean, A., Gedminienė, L., Giesecke, T., Jahns, S., Karpínska-Kończak, M., Kończak, P., Lamentowicz, M., Latałowa, M., Marcisz, K., Obremska, M., Pędziszewska, A., Poska, A., Rehfeld, K., Stančikaitė, M., Stivrins, N., Święta-Musznicka, J., Szal, M., Vassiljev, J., Veski, S., Wacnik, A., Weisbrodt, D., Wiethold, J., Vannièrè, B., Słowiński, M. **(2018)**. Holocene fire activity during low-natural flammability periods reveals scale-dependent cultural human-fire relationships in Europe. *Quaternary Science Reviews* 201, 44-56.

Schirrmeister, L., Schwamborn, G., Overduin, P.P., Strauss, J., Fuchs, M.C., Grigoriev, M., Yakshina, I., Rethemeyer, J., **Dietze, E.**, Wetterich, S. **(2017)**. Yedoma Ice Complex of the Buor Khaya Peninsula (southern Laptev Sea). *Biogeosciences* 14, 1261-1283.

Zielhofer, C., Fletcher, W.J., von Suchodoletz, H., Schneider, B., Schlegel, M., **Dietze, E.**, Schepanski, K., Weninger, B., Mikdad, A., Mischke, S. **(2017)**. Millennial-scale fluctuations in Saharan dust supply across the decline of the African Humid Period. *Quaternary Science Reviews* 171, 119-135.

**Dietze, E.**, Słowiński, M., Zawiska, I., Veh, G., Brauer, A. **(2016)**. Multiple drivers of Holocene lake level changes at a lowland lake in northeastern Germany. *Boreas* 45, 828-845.

Borchers, A., **Dietze, E.**, Kuhn, G., Esper, O., Voigt, I., Hartmann, K., Diekmann, B. **(2015)**. Holocene ice dynamics and bottom-water formation associated with Cape Darnley polynya activity recorded in Burton Basin, East Antarctica. *Marine Geophysical Research*, 1-22.

**Dietze, E.**, Maussion, F., Ahlborn, M., Diekmann, B., Hartmann, K., Henkel, K., Kasper, T., Lockot, G., Opitz, S., Haberzettl, T. **(2014)**. Sediment transport processes across the Tibetan Plateau inferred from robust grain size endmembers in lake sediments. *Climate of the Past* 10, 91-106.

**Dietze, E.**, Wünnemann, B., Hartmann, K., Diekmann, B., Jin, H., Stauch, G., Yang, S., Lehmkuhl, F. **(2013)**. Early to mid-Holocene lake high-stand sediments at Lake Donggi Cona, northeastern Tibetan Plateau, China. *Quaternary Research* 79, 325-336.

**Dietze, E.**, Hartmann, K., Diekmann, B., Ilmker, J., Lehmkuhl, F., Opitz, S., Stauch, G., Wünnemann, B., Borchers, A. **(2012)**. An end-member algorithm for deciphering modern detrital processes from lake sediments of Lake Donggi Cona, NE Tibetan Plateau, China. *Sedimentary Geology* 243-244, 149-180.

**Dietze, E.**, Diekmann, B., Wünnemann, B., Aichner, B., Hartmann, K., Herzschuh, U., Ilmker, J., Kopsch, C., Lehmkuhl, F., Li, S., Mischke, S., Niessen, F., Opitz, S., Stauch, G. **(2010)**. Basin morphology and seismic stratigraphy of Lake Donggi Cona, north-eastern Tibetan Plateau, China. *Quaternary International* 218, 131-142.