

Date of birth: 1st March 1981
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 Civil Status: Registered relationship
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EDUCATION

09.2006-08.2010 Ph.D. in Oceanography Dalhousie University, Canada
 Title: *On the paleoceanography of the eastern equatorial Pacific during the last 100,000 years* (Advisor: Prof. Markus Kienast) **Awarded on October 7th, 2010**

11.2003-10.2005 M.Sc. in Geology University of Geneva, Switzerland
 Title: *Changements climatiques et océanographiques au Pléistocène supérieur: Les données du Plateau du Marion, NE Australie* (Advisor: Prof. Pascal Kindler)

10.2000-10.2003 B.Sc. in Earth Sciences University of Geneva, Switzerland

PROFESSIONAL EXPERIENCE

04.2021 – present **Group Leader (tenured)**, Eawag, Duebendorf, Switzerland
 10.2016 – 03.2021 **SNF Assistant Professor**, Swiss Federal Institute of Technology (ETH Zurich)
 09.2013 – 10.2016 **Group Leader on tenure track**, Eawag, Duebendorf, Switzerland
 03.2012 – 08.2013 **Postdoctoral Investigator**, Woods Hole Oceanographic Institution, USA
 09.2010 – 03.2012 **Research Associate (Postdoc)**, The University of Manchester, UK
 2008 – 2010 **Ocean Workshop Reporter** for the Canadian Institute For Advanced Research
 2004 **Research Assistant**, University of Geneva, Switzerland
 2003 – 2004 **Field auxiliary**, CSD Engineers SA, Geneva, Switzerland
 1999 – 2003 **Lab technician** (internships), Research Department, Firmenich SA, Switzerland

GRANTS AND FELLOWSHIPS

2020 **Marsden Fund** (Associated Investigator, 869'000 NZD)
 2020 **Eawag Discretionary Fund** (103'105 CHF)
 2020 **SNSF Sinergia RICH**, project partner
 2016 **SNSF Professorship MACRO** (1'574'180 CHF)
 2015 **SNSF PALEOFARM** (236'007 CHF)
 2015 Lake Ladoga Sediment Archives (36'800 CHF)
 2014 **Eawag Discretionary Fund** (119'792 CHF)
 2012 **NERC Post-Cruise Grant** (19'500 £)
 2011 UK-IODP Grant for the 8th Urbino Summer School in Paleoclimatology (1'000 €)
 2011 ECORD Research Grant (2'000 €)
 2011 IMAGES Travel Grant to attend ICP-X (1'200 €)
 2010 **NERC Grant to join IODP Exp 329** (11'855 £)
 2010 International Association of Sedimentologists (IAS) Travel Grant (700 €)
 2010 Dalhousie Faculty of Graduate Studies Conference Travel Grant (750 CAD)
 2009 **SNSF Fellowship for Prospective Researcher** (44'225 CHF)
 2008 GSA Graduate Student Research Grant (2'930 \$)
 2008 IAS Postgraduate Research Grant (1'000 €)

AWARDS

2010 Nominated for the Dalhousie University *Doctoral Thesis Award*
 2008 *G. L. Blechschmidt Award* (Geological Society of America, Specialized Award)
 2005 Prix ELSTE – A. Lombard, *best Master's thesis* (1000 CHF)

POSTDOCS ADVISED

09.2020 - present	Dr. Céline Martin, Eawag
04.2015 - 04.2019	Dr. Nemiah Ladd, ETHZ & Eawag (2015-2017 as co-advisor with C. Schubert)
02.2017 - 08.2017	Dr. Aurea Chiaia-Hernández, Eawag
05.2014 - 07.2015	Dr. Marlène Lavrieux, Eawag

STUDENTS SUPERVISED

PhD Advisor:

03.2021 - present	Benedict Mittelbach, ETH Zurich, co-advised
06.2018 - present	Remo Röhlin, Eawag
04.2017 - present	Ronald Lloren, ETH Zurich
11.2016 - present	Giorgia Camperio-Ciani, ETH Zurich
10.2015 - 09.2019	Mischa Haas, Eawag & ETH Zurich <i>“Paleolimnological Tracers of Early Farming: Reconstructing the Impact of Agriculture on Soil Degradation and Lakes”</i>

PhD proposal defense & PhD Examination Committee:

03.2022	Kai Nakajima, ETH Zurich
05.2021	Christian Heusser, ETH Zurich
12.2020	Julie Rotschi, CARRTEL Limnology Center
10.2020	Fatemeh Ajallooeian, ETH Zurich
05.2020	Annika Fiskal, ETH Zurich
05.2018	Rosalie Bruel, INRA Thonon
08.2017	Carl Love Råman Vinnå, EPF Lausanne
11.2016	Alissa Zuijdgeest, ETH Zurich

Master Advisor:

02.2017 - 09.2018	Fatemeh Ajallooeian, University of Helsinki (co-supervised) <i>“Reconstruction of the past 3000 years of vegetation and land-use dynamics: a case study of pollen and geochemical indicators of Lake Lavijärvi in the Karelian Russia”</i>
02.2018 - 06.2018	Amicie Delahaie (Master I Internship, Ecole Normale Supérieure, Paris) <i>“Fossil Biomarkers in Remote Oceania: An example of ecosystem tracing on Espiritu Santo Island, Vanuatu”</i>
09.2017 - 04.2018	Christiane Krentscher, ETH Zurich <i>“Lipid distributions in leaf waxes of indigenous and agricultural plants of Vanuatu”</i>
01.2017 - 09.2017	Remo Röhlin, ETH Zurich <i>“Analysis of the heavy metal distribution in sediments of Lake Zurich”</i>
09.2014 - 03.2015	Rahel Liechti, Eawag & ETH Zurich <i>“Heavy metal distribution in the sediments of Lake Walen”</i>
04.2014 - 08.2015	Laetitia Meuriot, Eawag & ETH Zurich <i>“Recent Mass Transport Deposit in Lake Biel: Tracking its age, causes and consequences”</i>

Undergraduate Advisor and Mentor:

2019	Tobias Hemmerle, University of Zurich (B.Sc. advisor) <i>“Paleolimnological analysis of Lake Millstatt”</i>
2018	Lukas Rigling, ETH Zurich (B.Sc. advisor) <i>“On the trail of Erik the Red - Deciphering the impact of early farming on soil degradation and lakes in Southern Greenland”</i>
2018	Laurent Christen, ETH Zurich (B.Sc. advisor) <i>“Organic carbon sedimentation in a Greenlandic lake, and its implications on medieval Norse land use”</i>
2018	Björn Bauhofer, ETH Zurich (B.Sc. co-advisor) <i>“Polycyclic Aromatic Hydrocarbon (PAH) depositions in Greifensee sediments: a comparison between 20th & 21st Centuries”</i>
2017	Simon Janssen, ETH Zurich (B.Sc. advisor) <i>“Oil Contamination in the Sediments of the Petrozavodsk Bay of Lake Onega”</i>
2015	Marvin Rabold, ETH Zurich (M.Sc. internship advisor)

- 2014 Tobias Schwestermann, ETH Zurich (B.Sc. co-advisor)
“Erosion and sedimentation in Lake Zurich – the influence of the lake currents on sedimentary processes”
- 2014 Léa Freydier, EPF Lausanne (M.Sc. internship advisor)
- 2014 Maria-Inés Haldemann, Gymnasium Biel (Matura Projekt advisor)
“Messung und Verteilung künstlicher radioaktiver Nuklide im Sediment des Bielersees”
- 2013 Andrew Gorin, WHOI Summer Guest Student (mentor)
- 2011 Lee Martin, The University of Manchester (M. Earth. Sci mentor)

SYNERGISTIC ACTIVITIES

- 2021 - 2024 **President** of the Swiss Commission of Oceanography and Limnology (SCNAT)
- 2021 - 2024 **Chair** of the PAGES Working Group: Human Traces
- 2021 **Co-Organiser** of the 2nd International Conference on Contaminated Sediment, June, Bern.
- 2020 **Chair** of the Working Group Earth Surface in the Swiss Round Table for Large Research Infrastructure – Geosciences (SCNAT).
- 2019 **Session chair:** “Lake Systems in the Anthropocene”, INQUA, Dublin, Ireland
- 2018 **Convener**, FROG (French Organic Geochemists) 3rd Reunion
- 2017 **Organiser**, PEAK Course on Pollutants in Sediments, Eawag, Dübendorf, Switzerland
- 2017 **Session chair:** “Organic proxies: recorders of climate changes, tracers of past ecosystems, keys to the Anthropocene - In Memoriam Geoff Eglinton”, Goldschmidt, Paris, France
- 2017 **Session chair:** “Human Impact on Global Aquatic Systems” and “ From early human impacts to the Great Acceleration: A paleoscience perspective on the climate landscape-human multiple connections”, PAGES Open Science Meeting, Zaragoza, Spain
- 2014 **Convener**, FROG (French Organic Geochemists) 2nd Reunion
- 2010 **Session chair:** “Advances in the use of Biomarkers”, AGU Fall Meeting, USA

TEACHING ACTIVITIES

- 2018-2019 Guest lecture in Limnology, Master level, 20 students, EPFL
- 2017 Vollenweider Lecture, Kantonschule Musegg, Lucern
- 2016-present Umweltsysteme 1, Bachelor level, 300+ students, D-USYS ETHZ
- 2015-present International Geochemistry Summerschool, 15-20 students, UniZH & WSL, Graubünden
- 2014-present Limnogeology (incl. Praktikum), Master level, 30 students, D-ERDW ETHZ

INSTITUTIONAL SERVICES & DUTIES

- 2021-present Eawag Doctoral Studies Committee, lead
- 2020 => 2022 InfoTag in Lausanne, moderator
- 2019 PEAK course (Spurenelemente in der Umwelt), presenter
 Oekotoxkurs (Bewertung der ökotoxikologischen Sedimentqualität), presenter
- 2017 PEAK course (Schadstoffe in Seesedimenten), **organizer**
 Eawag Christmas, **organizer** for drinks and catering
- 2016-present Foresight 2030, member
- 2016 Open-door for the 100th of Kastanienbaum – Sediment core station
 InfoTag in Lucern, presenter
- 2015-present Space Committee, member
 Pavillon Committee, then Labor Umbau, member
- 2014-2016 Seminar Committee, member
- 2012-2013 President of the WHOI Postdoctoral Association
- 2012-2013 Member of the WHOI International Committee
- 2011-2012 Organiser of the Basin Seminar Series, SEAES, The University of Manchester
- 2008-2009 Dalhousie University chemical oceanography student representative
- 2007-2008 Organiser of the Biogeochemistry Seminars, Dept. of Oceanography, Dalhousie Univ.

CONSULTING ACTIVITIES

- 2020 Sedimentological analyses of pollution in Hirschensee, for Steidle Consulting.
2018 Sedimentological & chronological analyses of a heavy metal pollution in Lake Zurich for AWEL.
2017 Fieldwork support for the establishment of the KBS See, for AWEL (Kanton Zurich).
2015-present Responsible for the contracts with BAG & ENSI for the radioactivity surveillance.
2014-present sporadic fieldwork support for Kantons & Engineering offices
2014 Report for «Amt für Umweltschutz «Schwyz»: *Sauerstoffverhältnisse im Zürichersee*

REVIEWING ACTIVITIES

- Journals: Frontiers in Earth Sciences, Journal of Paleolimnology, Environmental Pollution, Sedimentology, The Anthropocene, Climate of the Past, Nature Communication, Global Change Biology, Earth and Planetary Science Letters, Environmental Science and Pollution Research, Palaeogeography Palaeoclimatology Palaeoecology, Aquatic Geochemistry, Environmental Earth Sciences, Geophysical Research Letters, Journal of Soils and Sediments, Terra Nova, Paleoceanography, Asian Journal of Earth Science, Quaternary International
Grants: European Research Council (ERC), National Science Foundation (USA), Marsden Fund (New Zealand), Deutsche Forschungsgemeinschaft (Germany) – Collaborative Research Center concept
Habilitation : Université Bourgogne Franche-Comté (2018) : Dr. Laurent Millet

FIELD CAMPAIGNS

- 2013 – present **Coring** on: 20+ Swiss Lakes
08.2017 Coring in 7 islands of Vanuatu (Gravity & Russian peat corer)
07.2016 Coring 10 lakes in Vatnahverfi Peninsula, Greenland
2015 & 2016 Coring from the Ice in Petrozavodsk & Sortavala, Russia
10 – 12.2010 International Ocean Drilling Program (IODP) Expedition 329, in the S. Pacific Gyre
06 – 07.2008 AMOCINT oceanographic cruise – R/V Marion Dufresne – North Atlantic

INVITED TALKS

- 12.2020 « *Lipid Biomarkers as Footprints of Past Climate-Human-Environment Nexus in Lake Sediments.* » AGU Fall Meeting, Online.
12.2020 « *Biogeochemical footprints of Our Past in lake sediments* » Erdwissenschaftliches Kolloquium, Institute of Geological Sciences, University of Bern
02.2019 « *Tracking our ancestors' legacy in lake sediments* » SwissSed, Fribourg, Switzerland
10.2017 « *Auf der Spuren der Polynesier* » Treffpunkt Science City, ETH Zurich, Switzerland
09.2017 « *Seesedimente als Archive für Klimaveränderungen* », Vollenweider Lecture Series, Lucerne, Switzerland
04.2017 « *Sediments as archives of Human Impacts in the Paleanthropocene* », Departmental Seminar, University of Basel
02.2017 « *Palaeolimnology: Examples from Europe* », Mindset Lecture, University of Nottingham, Kuala Lumpur, Malaysia
12.2016 « *Molecular fossils: tracers of anthropogenic and climatic impact on the paleoenvironment.* », Seminar, UniBern, Bern, Switzerland
10.2016 « *What lies beneath... Sediments and their untold stories*», Seminar, Eawag, Kastanienbaum, Switzerland
03.2015 « *Lacustrine sediments as archives of Early Human Impacts* », Seminar, ETH, Zurich, Switzerland
04.2014 « *Molecular Paleohydrology: Carbon, the unsung hero* » Departmental Seminar, Laboratoire de Géologie de Lyon, France
06.2014 « *Paléohydrologie moléculaire : Le carbone, ce héros méconnu* » Departmental Seminar, Université de Toulouse 2 le Mirail, France
02.2013 « *On the formation process of sedimentary proxy signatures* », Colloquium Eawag, Dübendorf, Switzerland,

- 11.2012 « *Atmospheric Bridge and Oceanic Tunnel: A multiproxy roadmap of the Eastern Equatorial Pacific during the last 100 kyr.* », Woods Hole Oceanographic Institution Climate and Paleo Lunch Seminar, Woods Hole, MA, USA
- 10.2011 « *The Pacific Cold Tongue during the last 100,000 years: An important cog of Earth's climate system.* », School of Earth, Atmospheric and Environmental Sciences Seminar, Manchester, UK
- 02.2011 « *The eastern equatorial Pacific during the last 100,000 years: Temperature, productivity, denitrification and high-latitude linkages* »
Sedimentologisches und paläoozeanographisches Seminar, ETH, Zurich, Switzerland

AFFILIATIONS

- Societies:** Swiss Geological Society, Swiss Society for Quaternary Research, American Geophysical Union, International Association of Sedimentologists
- Networks:** PAGES working groups: Human Traces, Aquatic Transitions, GloSS, NICOPP
Sediment Expert for the Swiss Modular Stepwise Procedure (MSK)

OUTREACH

- 10.2020 La Broye (Newspaper) : « *Les Romains polluaient déjà nos lacs* »
- 08.2020 Short Interview on Lake Murten for: “19:30”, RTS (04.08.2020)
- 09.2019 Video interview for EQUAL (ETH Zurich)
- 07.2018 SRF Sommerserie Espresso H2Ohhh!: « *Der Seeboden zeigt die Vergangenheit und die Zukunft* »
- 11.2018 RTS: CQFD: « *Quand les romains polluaient nos lacs, RTS - CQFD, 2018* »
- 02.2018 Tages Anzeiger: « *Reise wie zu Darwins Zeiten* »
- 10.2017 « *Auf der Spuren der Polynesier* » Treffpunkt Science City, ETH Zurich, Switzerland
- 09.2017 « *Seesedimente als Archive für Klimaveränderungen* », Vollenweider Lecture Series, Gymnasium, Lucerne, Switzerland
- 02.2017 « *Palaeolimnology : Examples from Europe* », Mindset Lecture, University of Nottingham, Kuala Lumpur, Malaysia

CAREER BREAK

- 03.2020-04.2020 COVID-19 related childcare duties (closure of Kindergarten)
- Since 03.2019 80% work hours
- 10.2018-03.2019 Maternity leave