

# Dr. David J Janssen

## 1. Personal Information

Present Address:

Eawag

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## 2. Education

- 2011–2017** **PhD, Earth and Ocean Sciences**, School of Earth and Ocean Sciences, University of Victoria (UVic), Victoria BC Canada. *Advisor: Jay Cullen. Dissertation: Investigating the Distributions of Zinc and Cadmium in the Subarctic Northeast Pacific Ocean.*  
Defense Date: 31/01/2017, Degree Completed: 17/03/2017, Degree Conferred: 05/2017.
- 2006–2011** **BSc Summa cum Laude**, Chemistry, Humboldt State University, Arcata California USA.  
Degree conferred: 18/05/2011.

## 3. Employment History

- 2021–Present** **Group Leader**, tenure track, Department Surface Waters, Eawag; 10/2021–present.
- 2017–2021** **Postdoctoral Researcher**, Institute of Geological Sciences, University of Bern (UniBern), Bern Switzerland, *Advisor: Samuel Jaccard*; 10/2017–9/2021.
- 2017** **Research Technician**, Institute of Ocean Sciences, Fisheries and Oceans Canada, Sydney BC Canada, *Contracted by: Dr. Andrew Ross, Institute of Ocean Sciences*; 03/2017–08/2017.
- 2011–2017** **Graduate Research Assistant**, School of Earth and Ocean Sciences, University of Victoria, Victoria BC Canada, *Advisor: Dr. Jay Cullen*; 09/2011–03/2017.
- 2007–2011** **Undergraduate Research Assistant**, Chemistry Department, Humboldt State University, Arcata California USA, *Advisor: Dr. Matt Hurst*; 12/2010–05/2011.

## 4. Refereed Journal Publications

- In Review** Fourquez, M., **Janssen, D.J.**, Conway, T.M., Cabanes, D., Ellwood, M.J., Sieber, M., Trimborn, S., Hassler, C. Extreme variability of iron bioavailability in the Southern Ocean. Manuscript submitted to Science Advances (manuscript ID: adf9696).
- 2023** **Janssen, D.J.**, Gilliard, D., Rickli, J., Nasemann, P., Koschinsky, A., Hassler, C.S., Bowie, A.R., Ellwood, M.J., Kleint, C., Jaccard, S.L. Chromium stable isotope distributions in the southwest Pacific Ocean and potential hydrothermal input from the Kermadec Arc. *Geochim. Cosmochim. Acta.* **342**, 31–44. doi: 10.1016/j.gca.2022.12.010.
- 2022** **Janssen, D.J.**, Rickli, J., Wille, M., Sepúlveda Steiner, O., Vogel, H., Dellwig, O., Berg, J., Bouffard, D., Lever, M.A., Hassler, C.S., Jaccard, S.L. Chromium cycling in euxinic basins challenges  $\delta^{53}\text{Cr}$  paleoredox proxy applications. *Geophys. Res. Lett.* **49**(21), e2022GL099154. doi: 10.1029/2022GL099154.
- 2022** Taves, R.C., **Janssen, D.J.**, Peña, M.A., Ross, A.R.S., Simpson, K.G., Crawford, W.R., Cullen, J.T., Relationship between surface dissolved iron inventories and net community production during a marine heatwave in the subarctic northeast Pacific. *Environ. Sci. Proc. Impact.* **24**, 1460–1473. doi: 10.1039/D2EM00021K.
- 2021** Horner, T.J., Little, S.H., Conway, T.M., Farmer, J.R., Hertzberg, J.E., **Janssen, D.J.**, Lough, A.J.M., McKay, J., Tessin, A., Galer, S.J.G., Lacan, F., Paytan, A., Wuttig, K., GEOTRACES–PAGES Biological Productivity Working Group Members. Bioactive trace metals and their isotopes as paleoproductivity proxies: An assessment using GEOTRACES-era data. *Glob. Biogeochem Cy.* **35**(11), e2020GB006814. doi: 10.1029/2020GB006814.
- 2021** Nixon, R.L., Peña, M.A., Taves, R., **Janssen, D.J.**, Cullen, J.T., & Ross, A.R. Evidence for the production of copper-complexing ligands by marine phytoplankton in the subarctic northeast Pacific. *Mar. Chem.* **237**, 104034. doi: 10.1016/j.marchem.2021.104034.
- 2021** Pöppelmeier, F., **Janssen, D.J.**, Jaccard, S.L., Stocker, T.F. Modeling the marine chromium cycle: New constraints on global-scale processes. *Biogeosci.* **18**, 5447–5463. doi: 10.5194/bg-18-5447-2021.
- 2021** **Janssen, D.J.**, Rickli, J., Abbott, A.N., Ellwood, M.J., Nasemann, P., Gilliard, D., Twining, B.S., Ohnemus, D.C., Jaccard, S.L. Release from biogenic particles, benthic fluxes, and deep water circulation control Cr and  $\delta^{53}\text{Cr}$  distributions in the ocean interior. *Earth Planet. Sci. Lett.* **574**, 117163. doi: 10.1016/j.epsl.2021.117163.

- 2020 Nazarova, T., Alessic, D.S., **Janssen, D.J.**, Bernier-Latmani, R., Wanner, C. *In Situ* Biostimulation of Cr(VI) Reduction in a Fast-Flowing Oxidic Aquifer. *ACS Earth Space Chem.* **4**(11), 2018-2030. doi: 10.1021/acsearthspacechem.0c00200.
- 2020 Nasemann, P., **Janssen, D.J.**, Rickli, J., Grasse, P., Franck, M., Jaccard, S.L. (2020). Chromium reduction and associated stable isotope fractionation restricted to anoxic shelf waters in the Peruvian Oxygen Minimum Zone. *Geochim. Cosmochim. Acta.* **285**, 207-224. doi: 10.1016/j.gca.2020.06.027.
- 2020 Whitby, H., Planquette, H., Cassar, N., Bucciarelli, E., Osburn, C.L., **Janssen, D.J.**, Cullen, J.T., González, A.G., Völker, C., Sarthou, G. A call for refining the role of humic-like substances in the oceanic iron cycle. *Sci. Rep.* **10**, 2144. doi: 10.1038/s41598-020-62266-7.
- 2020 **Janssen, D.J.**, Sieber, M., Ellwood, M.J., Conway, T.M., Barrett, P.M., Chen, X., de Souza, G.F., Hassler, C.S., Vance, D., Jaccard, S.L. Trace metal and nutrient dynamics across broad geochemical gradients in the Indian and Pacific sectors of the Southern Ocean. *Mar. Chem.* **221**, 103773. doi: 10.1016/j.marchem.2020.103773.
- 2020 **Janssen, D.J.**, Rickli, J.R., Quay, P.D., White, A.E., Jaccard, S.L. Biological control of chromium redox and stable isotope composition in the surface ocean. *Glob. Biogeochem. Cy.* **34**(1), e2019GB006397. doi: 10.1029/2019GB006397.
- 2019 Rickli, J., **Janssen, D.J.**, Ellwood, M.E., Hassler, C.S., Jaccard, S.L. Chromium biogeochemistry and stable isotope distribution in the Southern Ocean. *Geochim. Cosmochim. Acta.* **262**, 188-206. doi: 10.1016/j.gca.2019.07.033.
- 2019 **Janssen, D.J.**, Abouchami, W.A., Galer, S.J.G., Purdon, K.B., Cullen, J.T. Particulate cadmium stable isotopes in the subarctic northeast Pacific reveal dynamic Cd cycling and a new isotopically light Cd sink. *Earth Planet. Sci. Lett.* **515**, 67-78. doi: 10.1016/j.epsl.2019.03.006.
- 2018 Schlitzer, R., and 285 others (including **D.J. Janssen**). The GEOTRACES Intermediate Data Product 2017. *Chem. Geol.* **493**, 210-223. doi: 10.1016/j.chemgeo.2018.05.040.
- 2018 Jackson, S.L., Spence, J., **Janssen, D.J.**, Ross, A., Cullen, J.T. Determination of Mn, Fe, Ni, Cu, Zn, Cd and Pb in seawater using offline extraction and triple quadrupole ICP-MS/MS. *J. Anal. Atom. Spectrom.* **33**(2), 304-313. doi: 10.1039/C7JA00237H.
- 2017 **Janssen, D.J.**, Abouchami, W., Galer, S.J.G., Cullen, J.T. Fine-scale spatial and temporal cadmium isotope variability in the subarctic northeast Pacific. *Earth Planet. Sci. Lett.* **472**, 241-252. doi: 10.1016/j.epsl.2017.04.048.
- 2017 Fassbender, A.J., and 81 others (including **D.J. Janssen**). Perspectives on Chemical Oceanography in the 21st century: Participants of the COME ABOARD Meeting examine aspects of the field in the context of 40 years of DISCO. *Mar. Chem.* **196**, 181-190. doi: 10.1016/j.marchem.2017.09.002.
- 2015 **Janssen, D.J.**, Cullen, J.T. Decoupling of zinc and silicic acid in the subarctic northeast Pacific interior. *Mar. Chem.* **177**, 124-133. doi: 10.1016/j.marchem.2015.03.014.
- 2014 **Janssen, D.J.**, Conway, T.M., John, S.G., Christian, J.R., Kramer, D.I., Pedersen, T.F., Cullen, J.T. Undocumented sink for cadmium in open ocean oxygen deficient zones. *Proc. Nat. Acad. Sci. USA.* **111**(19), 6888-6893. doi: 10.1073/pnas.1402388111.

## 5. Data sets

- 2022 Chemical data accompanying the manuscript "Chromium cycling in redox-stratified basins challenges  $\delta^{53}\text{Cr}$  paleoredox proxy applications" in Geophysical research Letter [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.7127882>.
- 2021 GEOTRACES Intermediate Data Product Group. The GEOTRACES Intermediate Data Product 2021 (IDP2021). NERC EDS British Oceanographic Data Centre NOC. DOI: 10.5285/cf2d9ba9-d51d-3b7c-e053-8486abc0f5fd.
- 2021 Pöppelmeier, F., **Janssen, D.J.**, Jaccard, S.L., & Stocker, T.F. Modeling the marine chromium cycle: New constraints on global-scale processes: Model output data [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.4699993>
- 2021 **Janssen, D.J.**, Rickli, J., Abbott, A.N., Ellwood, M.J., Twining, B.S., Ohnemus, D.C., Nasemann, P., Gilliard, D., Jaccard, S.L. Dissolved Cr concentration and stable isotope data presented in "Release from biogenic particles, benthic fluxes, and deep water circulation control Cr and  $\delta^{53}\text{Cr}$  distributions in the ocean interior" (Janssen et al., 2021, EPSL). (1.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.5408613>
- 2020 **Janssen, D.J.**, Sieber, M., Ellwood, M.J., Conway, T.M., Barrett, P.M., Chen, X., de Souza, G.F., Hassler, C.S., Jaccard, S.L. Dissolved trace metal (Fe, Ni, Cu, Zn, Cd, Pb) concentrations in the Indian and Pacific sectors of the Southern Ocean from the Antarctic Circumnavigation Expedition (2016-2017) (Version 1.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.3634411>
- 2019 **Janssen, D.J.**, Rickli, J., Quay, P.D., White, A.E., Nasemann, P., Jaccard, S.L. Seawater dissolved chromium concentration, redox speciation, and stable isotope composition in the North Pacific Ocean (1.0 (03-Dec-2019)) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.3560082>
- 2019 Rickli, J., **Janssen, D.J.**, Hassler, C., Ellwood, M., Jaccard, S.L. (2019). Seawater chromium concentrations and isotope compositions in the Southern Ocean during the austral summer of

2016/2017, on board the Antarctic Circumnavigation Expedition (ACE). (1.0) [Data set]. Zenodo.  
<https://doi.org/10.5281/zenodo.3250980>

## 6. Funded Research Projects

- 2023** **Leister Go East 2023, selected participant.** Tracing contaminant metals in Southeast Greenland rivers.
- 2022** **Swiss Polar Institute Exploratory Grant:** Assessing the impact of mining and natural enrichments on heavy metal contamination in Greenland's rivers.
- 2021** **Swiss National Science Foundation Ambizione Grant:** Biological productivity-dust coupling in the glacial Southern Ocean: New insights from metal isotopes.

## 7. Research Experience

- 2021-present** **Research Group Leader**, Aquatic Geochemistry group; 01/10/21 to present  
Eawag, Department Surface Waters, Kastanienbaum Switzerland
- 2018** **Visiting Researcher**, *Group of Dr. Michael Ellwood*; 09/08/2018 to 08/09/2018  
Australian National University, Canberra Australia,
- 2017-21** **Postdoctoral Research Assistant**, *Advisor: Dr. Samuel Jaccard*; 15/10/2017 to 30/09/2021  
Institute for Geological Sciences, University of Bern, Bern, Switzerland.
- 2017** **Research Technician**, *Contracted by: Dr. Andrew Ross*; 18/03/2018 to 30/08/2018  
Institute of Ocean Sciences, Fisheries and Oceans Canada, Sidney, BC Canada
- 2011-17** **Graduate Research Assistant**, *Advisor: Dr. Jay Cullen*; 07/09/2011 to 17/03/2018  
School of Earth and Ocean Sciences, University of Victoria, Victoria, BC Canada
- 2015-16** **Visiting Research Assistant**, *Advisors: Dr. Steve Galer (MPIC), Dr. Wafa Abouchami (IPG Paris)*;  
01/10/2015 to 11/05/2016 Max Planck Institute for Chemistry, Mainz Germany
- 2013-14** **Visiting Research Assistant**, *Advisors: Dr. Wafa Abouchami and Dr. Steve Galer*; 01/10/2013 to  
20/05/2014, Max Planck Institute for Chemistry, Mainz, Germany
- 2010** **NSF-REU**, *Advisor: Dr. Kelly Falkner*; June-Aug 2010  
College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, Or.
- 2010-11** **Undergraduate Research Assistant**, *Advisor: Dr. Matt Hurst*, Dec 2010 – May 2011  
Chemistry Department, Humboldt State University, Arcata, Ca.
- 2007-10** **Undergraduate Research Assistant**, *Advisor: Dr. Matt Hurst*, July 2007 – Nov 2010  
Chemistry Department, Humboldt State University, Arcata, Ca.

## 8. Oral contributions to conferences

- 2022** **Janssen, D.J.**, Rickli, J., Wille, M., Hassler, C.S., Vogel, H., Jaccard, S.L. Chromium cycling in euxinic basins: Implications for the  $\delta^{53}\text{Cr}$  paleoredox proxy from modern systems. Oral presentation at the 2022 Ocean Sciences virtual meeting, 24/02/2022-04/03/2022.
- 2021** **Janssen, D.J.**, Rickli, J., Wille, M., Hassler, C.S., Vogel, H., Jaccard, S.L. Chromium cycling in euxinic basins: Implications for the  $\delta^{53}\text{Cr}$  paleoredox proxy from a modern system (Lake Cadagno, Ticino, Switzerland). Oral presentation at the 2021 Swiss Geoscience Meeting, 19-20/11/2021.
- 2021** **Janssen, D.J.**, Rickli, J., Abbott, A.N., Ellwood, M.J., Nasemann, P., Gilliard, D., Twining, B.S., Ohnemus, D.C., Jaccard, S.L. Release from biogenic particles, benthic fluxes, and deep water circulation control Cr and  $\delta^{53}\text{Cr}$  distributions in the ocean interior. Elucidating biogenic components of the  $\delta^{53}\text{Cr}$  cycle in the modern ocean. Oral presentation at the 2021 Virtual Goldschmidt Conference, 4-9/07/2021.
- 2020** **D. Janssen**, Sieber, M., Ellwood, M., Conway, T., Barrett, P.M., Hassler, C., Jaccard, S. Significant Biological Uptake of Trace Metals in the Mertz Glacier Polynya, East Antarctica. Oral presentation at the 2020 Ocean Sciences Meeting, San Diego California, USA, 17-21/02/2020.
- 2019** **D. Janssen**, Rickli, J.R., Quay, P.D., White, A.E., Jaccard, S.L. Biological control of  $\delta^{53}\text{Cr}$  in the surface ocean. Oral presentation at the 2019 Goldschmidt Conference, Barcelona Spain, 19-23/08/2019.
- 2018** **D. Janssen**, W. Abouchami, S. Galer, K. Purdon, J. Cullen. Particulate Cd isotopes demonstrate a dynamic oceanic Cd cycle. Poster presentation at the 2018 Ocean Sciences Meeting in Portland, Or, USA, 11-16/02/2018.
- 2017** **D. Janssen**, K. Purdon, J. Cullen, W. Abouchami, S. Galer, P. Lam. Particulate cadmium concentration and isotopes along Line P in August 2014. Oral presentation at the 2017 Line P Workshop, Institute of Ocean Sciences, Sidney, BC Canada, 09/03/2017.
- 2016** **D. Janssen**. Investigating the distributions of Zn and Cd in the oxygen-depleted ocean interior. Invited oral presentation at Dissertations in Chemical Oceanography (DISCO) XXV, Honolulu, Hi USA, 9-13/10/2016.
- 2015** **D. Janssen**, J. Cullen, et al. Zinc in the Canadian Arctic Archipelago and Baffin Bay. Oral presentation at the ArcticNet Annual Scientific Meeting 2015, Vancouver, BC Canada, 7-11/12/2015.
- 2015** **D. Janssen**, J. Cullen, W. Abouchami, S. Galer. Dissolved cadmium along Line P highlights water-column trace metal deficits. Oral presentation at the 2015 Line P Workshop, Institute of Ocean Sciences, Sidney, BC Canada, 03/03/2015.

- 2014 **D. Janssen**, J. Cullen, W. Abouchami, S. Galer, H. de Baar. Cadmium isotopes along the Line-P transect in the northeast subarctic Pacific. Oral presentation at the 2014 Goldschmidt Conference, Sacramento, Ca USA, 8-13/06/2014.
- 2014 **D. Janssen**, J. Cullen. Improvements to a fluorescence-based flow-injection method for shipboard determination of dissolved zinc. Poster presentation at the 2014 Ocean Sciences Meeting, Honolulu, Hi USA, 23-28/02/2014.
- 2012 **D. Janssen**, J. Cullen. Investigating the distribution of dissolved copper, zinc, silver and cadmium in the Pacific Ocean. Oral presentation at the American Geophysical Union (AGU) Fall Meeting, San Francisco, Ca, 3-7/12/2010.
- 2010 **D. Janssen**, J.M. Lee, E. Boyle, P. Yeats, K. Falkner. Cadmium and barium distributions in Baffin Bay and Nares Strait summer 2003. Poster presentation at the AGU Fall Meeting, San Francisco, Ca USA, 13-17/12/2010.
- 2010 **D. Janssen**, J. Martin, M. Hurst. Temporal variation and removal of metals and nutrients in a constructed wetlands. Poster presentation at the American Chemical Society National Meeting, San Francisco, Ca USA, 21-25/03/2010.

### 9. Expert consulting and Technical Reports

- 2022-Present Scientific representative from Eawag for NADUF (National River Monitoring and Survey Programme)
- 2022 Schmid M, Voegelin A, **Janssen D** (2022). Seeschüttung Urnersee –Auswirkungen der Stickstoffrückstände im Ausbruchmaterial auf den Urnersee. Bericht im Auftrag der Gesundheits-, Sozial- und Umweltdirektion des Kantons Uri, Eawag, Kastanienbaum.
- 2022 Müller, B., Wüest, A., Schmid, M., **Janssen, D.**, & Sperlich, N. (2022). Auswirkungen der Zirkulationsunterstützung (Beurteilung see-interner Massnahmen zur beschleunigten Sanierung des Zugersees). Eawag. <https://www.dora.lib4ri.ch/eawag/islandora/object/eawag:24858>.

### 10. Institutional Responsibilities and Committees

- 2022-Present Representative from Surface Waters Department for the Eawag Seminar Series. 05/2022-Present.
- 2012-13 Graduate Student Representative, UVic School of Earth and Ocean Sciences, 01/2012-09/2013.

### 11. Supervision of Junior Researchers

- 2023 Norberto Jr Aquino (ETH Zurich, MSc student), supervisor (01-2023-Present)
- 2022 Oscar Sepúlveda Steiner (Eawag, Postdoc), supervisor (07-2022-12-2022)
- 2022-Present Chun Fung Chiu (ETH Zurich, PhD student), supervisor (06/2022-Present)
- 2021-Present Delphine Gilliard (University of Lausanne PhD student) co-supervisor (04/2021-Present)
- 2019–2020 Delphine Gilliard (Uni Bern masters student), co-supervisor
- 2019 Tatiana Nazarova (Uni Bern masters student), trained and supervised in the lab
- 2017 Edward Gawne (UVic Undergraduate Honours thesis), trained and supervised in the lab
- 2017 Annaliese Meyer (UVic Undergraduate, NSERC USRA), trained and supervised in the lab and field
- 2016 Saskia Kowallik (UVic Undergraduate, NSERC USRA), trained and supervised in the lab
- 2015 Laura McKay (UVic Undergraduate, NSERC USRA), trained and supervised in the lab
- 2014 Kathryn Purdon (UVic Undergraduate, NSERC USRA), trained and supervised in the lab and field
- 2013–2015 Sarah Jackson (UVic M.Sc. student), trained in the lab
- 2013 Ashley Davidson (UVic Undergraduate, Honours thesis), trained in the lab
- 2012 Desirée Dillman (UVic Undergraduate, NSERC USRA), trained and supervised in the lab and field

### 12. Teaching Activities

- 2023 **Biogeochemie Praktikum**, 701-0420-01L Praktikum Biogeochemie FS2022, ETH Zurich. Lead instructor of Modul 5 (Biogeochemie des Oberflächenwassers (Moor)), 05/2023 to 06/2023.
- 2022 **Term Paper Mentor**, 701-1303-00L Term Paper 1: Writing HS2022, ETH Zurich, 09/22 to 02/23.
- 2022 **Biogeochemie Praktikum**, 701-0420-01L Praktikum Biogeochemie FS2022, ETH Zurich. Assistant instructor for labwork of Modul 5 (Biogeochemie des Oberflächenwassers (Moor)), 05/2022 to 06/2022.
- 2017 **Guest Instructor**, EOS 312: Chemical Oceanography, School of Earth and Ocean Sciences, University of Victoria, 22 & 24/02/2017.
- 2014 **Instructor**, EOS 312: Chemical Oceanography, School of Earth and Ocean Sciences, University of Victoria, Co-taught with Dr. Jay Cullen, 07/2014-09/2014
- 2013 **Teaching Assistant**, EOS 240: Geochemistry, School of Earth and Ocean Sciences, University of Victoria, 01/2013-04/2013.
- 2012 **Teaching Assistant**, EOS 240: Geochemistry, School of Earth and Ocean Sciences, University of Victoria, 01/2012-04/2014.
- 2007–2011 **Supplemental Instructor**, Chemistry 107, 109, and 110: Fundamentals of Chemistry, General Chemistry I & II, Chemistry Department, Humboldt State University. 08/2007-05/2011.

### 13. Memberships in Panels and Scientific Reviewing Activities

Editorial Board: Aquatic Science (Nov 2022 to present)

Reviewer for: Aquatic Science, Biogeosciences, Chemical Geology, Earth & Planetary Science Letters, Geochimica Cosmochimica Acta, Gondwana Research, Limnology & Oceanography, Marine Chemistry, Czech National Science Foundation, United States National Science Foundation, contribution to reviews for Proceedings of the National Academy of Sciences of the United States of America.

#### **14. Active Memberships in Scientific Societies**

European Association of Geochemistry (EAG)

American Society of Limnology & Oceanography (ASLO)

#### **15. Organization of Scientific Conferences**

- 2023** Session Convener, Emerging insights into processes controlling elemental and non-traditional stable isotope paleoproxies in past and present oceans (13h), Goldschmidt Conference, 9-14 July 2023.
- 2022** Session Convener, Sources, sinks, and cycling of trace elements in coastal and near-shore systems (CT-10), Ocean Sciences Virtual Meeting, 24/02-04/03/2022
- 2020** Session Convener, Biogeochemical cycles in oxygen minimum zones: mechanisms, drivers, and change (CT-42A), Ocean Sciences Meeting, San Diego California, 16-21/02/2020.
- 2015** Acting Session Co-Chair, Arctic GEOTRACES, ArcticNet Annual Scientific Meeting, Vancouver BC, 7-11/12/2015.

#### **16. Prizes, Awards and Fellowships**

- 2016** Dissertations in Chemical Oceanography (DISCO) XXV invited participant. 9-13/10/2016
- 2015–2016** Max Planck Institute for Chemistry Doctoral Stipend. 10/2014-05/2015
- 2014–2015** University of Victoria Dr. Arne H. Lane Graduate Fellowship. 09/2014-008/2015
- 2014** Ocean Sciences Meeting, Honolulu HI, Outstanding Student Presentation Award. 02/2014
- 2014–2016** UVic Graduate Award. 09/2014-08/2016
- 2013–2014** DAAD (German Academic Exchange Service) Visiting Research Scholarship. 10/2013-04/2014
- 2013–2014** University of Victoria Bob Wright Graduate Scholarship. 09/2013-08/2014
- 2013** UVic SEOS Grad Student Workshop First Prize for Research Presentation. 19/04/2013
- 2011–2014** UVic Graduate Student Fellowship. 09/2011-08/2014
- 2011–2012** UVic Graphic Office Interiors Scholarship. 09/2011-08/2012
- 2011** Humboldt State University Outstanding Student of the Year 2010-2011. 04/2011
- 2011** Scripps Institute of Oceanography T. R. and Edith Folsom Graduate Fellowship (Declined). 03/2011
- 2010** American Chemical Society Undergraduate Award in Inorganic Chemistry. 08/2010
- 2010** NSF Research Experience for Undergraduates (REU) Fellowship. 06-08/2010

#### **17. Activities to Promote Diversity and Inclusion**

- 2022** Organizing committee for 2022 GEODES workshop “Engaging in diverse teams”, 18/11/22.
- 2022-Present** Contact person at Eawag for GEODES (Promoting gender equality, diversity & inclusion in Swiss Geosciences). 10/2022-Present.

#### **18. Field Research Experience**

- 2022** Project lead for river sampling in Southern Greenland from small boats, 09/08/2022-02/09/2022.
- 2022-present** Project lead for regular metal sampling on Swiss lakes (Zug, Geneva, Cadagno)
- 2018** *RV Investigator*, Chief Scientist: Dr. Michael Ellwood (Australian Nat. U.). 11/09/2018-08/10/2018.
- 2018** *RV Investigator*, Chief Scientist: Dr. Tom Trull (CSIRO, Australia). 3-21/03/2018.
- 2017** *RV Kilo Moana*, Chief Scientists: Dr. Paul Quay (UW) and Dr. Angel While (OSU). 3-26/09/2017.
- 2016-17** *Akademik Tryoshnikov*, Chief Scientist: Dr. David Walton (British Antarctic Survey); Project Lead: Dr. Michael Ellwood (Australian Nat. U.). 20/12/2016-19/01/2017.
- 2016** *MSV John Strickland*. 07/07/2016.
- 2016** *MSV John Strickland*. 28/01/2016.
- 2015** *NGCC Amundsen*, Chief Scientist: Dr. Roger Francois (UBC). 10/07/2015 to 20/08/2015.
- 2014** *CCGS JP Tully*, Chief Scientist Marie Robert (IOS, Canada). 19/08/2014 to 04/09/2014.
- 2014** *MSV John Strickland*. 30/07/2014.
- 2012** *CCGS JP Tully*, Chief Scientist Marie Robert (IOS, Canada). 14-30/08/2012.
- 2012** *CCGS JP Tully*, Chief Scientist Marie Robert (IOS, Canada). 22/05/2012 to 08/06/2012.
- 2010** *R/V Point Sur*, Chief Scientist Dr. Ken Bruland (UC Santa Cruz). 7-25/05/2011.