

CURRICULUM VITAE

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**EDUCATION**

- (2010-2012) **Ph.D. in Earth Sciences**, University of Szczecin, Department of Earth Sciences, Szczecin, Poland
- (2002-2008) **M.Sc. in Geography**, University of Szczecin, Institute of Natural Sciences, Szczecin, Poland

ACADEMIC EXPERIENCE

- (2014-present) **Research Scientist (Post Doc)**, Greenland Institute of Natural Resources, Greenland Climate Research Centre, Nuuk, Greenland
- (2012-2014) **Post-doctoral Research Associate**, University of Szczecin, Department of Earth Sciences, Szczecin, Poland
- (2009) **Internship**, University of Szczecin, Department of Earth Sciences, Palaeoceanology Unit, Szczecin, Poland
- (2009) **Institute of Oceanology Polish Academy of Sciences**, Poland (Training in algae taxonomy of the West and East Greenland plankton)
- (2009) **University of Greifswald**, Germany (Course on Hiddensee Island; Training in water quality measurement techniques, and algae and zooplankton taxonomy)

RESEARCH HIGHLIGHTS

- Palaeoceanography of the West Greenland region: reconstruction of sea ice, temperature and salinity throughout the Holocene
- Biodiversity and biogeography of microplankton communities off West and East Greenland

GRANTS/AWARDS/SCHOLARSHIPS

- (2014) **West Pomeranian Nobel Prize for Research Honors in Marine Sciences (team award)**, *University of Szczecin, Poland* (1200€)
- (2013) **Polish Prime Minister's Award for the Best Ph.D. thesis**, *University of Szczecin, Poland* (5000€)
- (2012-2014) **Krawczyk, D. (Primary Investigator)**. PRELUDIUM Pre-Doctoral Fellowship: Comparative analysis of modern and fossil diatom assemblages and its application to reconstruction of climate-driven, ocean circulation changes (West and East Greenland). *University of Szczecin, Poland. Funded by National Science Center (Cracow, Poland)* (Award no. 2011/03/N/ST10/05794) (27500 €)
- (2010-2011) **Krawczyk, D. (Primary Investigator)**. Oscillatory pattern of the West Greenland Current as a result of global climate changes and the North Atlantic circulation based on a high-resolution diatom sediment record from Disko Bugt (West Greenland). *University of Szczecin, Poland. Funded by Polish Ministry of Sciences and Higher Education (Warsaw, Poland)* (Award no. N N306 425838) (7500 €)

- (2012) **Honorable Award for the Best Young Scientist at the University of Szczecin**, *University of Szczecin, Poland* (250 €)
- (2010-2012) **Ph.D. Scholarship for Research and Academic Honors**, *University of Szczecin, Poland* (two scholarships granted each year) (8500 €)
- (2011) **Australian Conference Stipend**, *PAGES and ARCNESS, Australia*
- (2011) **Award for the Best Popular Science Paper**, supported by *Ministry of Sciences and Higher Education, Poland* (2nd prize)
- (2010) **International Polar Year Oslo Stipend**, *Research Council of Norway, Norway*
- (2010) **Student Travel Grant**, *21st International Diatom Symposium Organizing Committee, USA*
- (2000) **Language Scholarship**, *American Cultural Exchange and Seattle Gdynia Sister City Association, USA-Poland* (1st prize) (Seattle Pacific University Language Certificate)

PARTICIPATION IN PROJECTS

- (2015-present) **Tighe, S.** The eXtreme Microbiome Project (XMP). *University of Vermont and Vermont Cancer Centre, USA. Funded by Association of Biomolecular Resource Facilities and Illumina*
(Expert on micropalaeontology – Greenland Deep Sea Studies)
- (2010-present) **Juul-Pedersen, T.** MarineBasis-Nuuk and MarineBasis-Zackenbergl (Greenland Ecosystem Monitoring programme). *Greenland Institute of Natural Resources, Greenland. Funded by Danish Energy Agency and the Environmental Protection Agency* (project no 6205 and 6203, respectively)
(Phytoplankton analysis; salary: 10000 €/year)
- (2012-2014) **Arendt, K.E.** Arctic phytoplankton species and diversity. *Greenland Institute of Natural Resources, Greenland. Funded by Danish Ministry of the Environment* (project no 6261PETAX)
(Phytoplankton analysis; salary: 25000 €)
- (2011-2012) **Fassnacht, L. and Hensch, B.** The South Baltic WebLab. *Leibniz Institute for Baltic Sea Research, Germany. Part-financed by the European Union (European Regional Development Fund)* (project no WTB.01.02.00-56-006/09)
(Expert on micropalaeontology; salary: 1000 €)
- (2008-2011) **Harff, J. and Moros, M.** Interaction between oceanic forcing, climate change and the West Greenland ice sheet during the mid- to late Holocene. *Leibniz Institute for Baltic Sea Research, Germany. Funded by Deutsche Forschungsgemeinschaft (GEPRIS)* (project no Mo 1422/2-1)
(Diatom microfossil analysis; salary 5000 €)

FIELD EXPERIENCE

- (2014) **R/V Paamiut** cruise along the entire West Greenland coast, *Greenland Institute of Natural Resources, Greenland*
(Phytoplankton, sediment sampling and coring using box corer)
- (2013) **R/V Sanna** cruise, Godthåbsfjord, *Greenland Institute of Natural Resources, Greenland*
(Phytoplankton sampling)
- (2012) **R/V Dana** cruise, Iceland-East Greenland transects, *DTU-Aqua, Denmark*
(Phytoplankton sampling)
- (2008) **R/V Professor Albrecht Penck monitoring cruise** along Danish Straits, *Leibniz Institute for Baltic Sea Research, Germany*
(Assisted with sediment sampling and coring using gravity and multi-corers)
- (2004) **R/V Alexander von Humboldt monitoring cruise** along Danish Straits, *Leibniz Institute for Baltic Sea Research, Germany*
(Assisted with sediment sampling and coring using gravity and multi-corers)

TEACHING EXPERIENCE

- Oceanography Labs (Graduate Teaching Assistant)
- Biological Oceanography Labs (Graduate Teaching Assistant)
- Baltic Sea Science Camp (2011) (The South Baltic WebLab Teaching Assistant)

RESEARCH PAPERS

- **Krawczyk, D.**, Witkowski, A., Moros, M., Lloyd, J., Høyer, J.L., Miettinen, A., Kuijpers, A. *In prep.* Diatom-based quantitative reconstruction of sea ice and sea surface temperature offshore West Greenland for the past c. 11000 years. To be submitted to *Quaternary Science Reviews*
- **Krawczyk, D.**, Arendt, K.E., Juul-Pedersen, T., Sejr, M.K., Blicher, M.E., Jakobsen, H.H. *In press.* Spatial and temporal distribution of planktonic protists in the East Greenland fjord and offshore waters. *Marine Ecology Progress Series*, doi: 10.3354/meps11439
- **Krawczyk, D.**, Witkowski, A., Juul-Pedersen, T., Arendt, K.E., Mortensen, J., Rysgaard, S. 2015. Microplankton succession in a SW Greenland tidewater glacial fjord influenced by coastal inflows and run-off from the Greenland Ice Sheet. *Polar Biology* 38: 1515-1533
- Weckström, K., Miettinen, A., Caissie, B., Pearce, C., Ellegaard, M., **Krawczyk, D.**, Witkowski, A. 2014. Sea surface temperatures in Disko Bay during the Little Ice Age – caution needs to be exercised before assigning *Thalassiosira kushirensis* resting spores as a warm-water indicator in palaeoceanographic studies. *Quaternary Science Reviews* 101: 234-237
- **Krawczyk, D.**, Witkowski, A., Waniek, J.J., Wroniecki, M., Harff, J. 2014. Description of diatoms from the Southwest to West Greenland coastal and open marine waters. *Polar Biology* 37: 1589-1606
- **Krawczyk, D.**, Witkowski, A., Lloyd, J., Moros, M., Harff, J., Kuijpers, A. 2013. Late-Holocene diatom derived seasonal variability in hydrological conditions off Disko Bay, West Greenland. *Quaternary Science Reviews* 67: 93-104
- **Krawczyk, D.**, Witkowski, A., Wroniecki, M., Waniek, J., Kurzydłowski, K.J., Płociński, T. 2012. Reinterpretation of two diatom species from the West Greenland margin - *Thalassiosira kushirensis* and *Thalassiosira antarctica* var. *borealis* - hydrological consequences. *Marine Micropaleontology* 88-89: 1-14
- **Krawczyk, D.**, Witkowski, A., Moros, M., Lloyd, J., Kuijpers, A., Kierzek, A. 2010. Late-Holocene diatom-inferred reconstruction of temperature variations of the West Greenland Current from Disko Bugt, central West Greenland. *The Holocene* 20 (5): 659-666

TECHNICAL REPORTS

- Juul-Pedersen, T., Arendt, K.E., Mortensen, J., **Krawczyk, D.**, Rysgaard, S., Retzel, A., Nygaard, R., Burmeister, A., Krause-Jensen, D., Marbá, N., Olesen, B., Sejr, M.K., Blicher, M.E., Meire, L., Geertz-Hansen, O., Labansen, A.L., Boye, T., Simon, M. *In press.* Nuuk Basic: The MarineBasis programme. In: Jensen, L.M., Rasch, M. (Eds), *Nuuk Ecological Research Operations, 8th Annual Report, 2014*. National Environmental Research Institute, Aarhus University, Denmark, pp 46-68
- Juul-Pedersen, T., Arendt, K.E., Mortensen, J., **Krawczyk, D.**, Rysgaard, S., Retzel, A., Nygaard, R., Burmeister, A., Krause-Jensen, D., Marbá, N., Olesen, B., Sejr, M.K., Blicher, M.E., Meire, L., Geertz-Hansen, O., Labansen, A.L., Boye, T., Simon, M. 2014. Nuuk Basic: The MarineBasis programme. In: Jensen, L.M., Rasch, M. (Eds), *Nuuk Ecological Research Operations, 7th Annual Report, 2013*. National Environmental Research Institute, Aarhus University, Denmark, pp 46-68
- Sejr, M.K., Juul-Pedersen, T., Bruhn, A., Stedmon, C., Blicher, M.E., Dalsgaard, T., Petersen, N.F., McGinnis, D.F., **Krawczyk, D.** 2012. Pelagic carbon cycling under influence of a melting ice cap. In: Jensen, L.M. (Ed.), *Zackenberg Ecological Research Operations, 17th*

Annual Report, 2011. National Environmental Research Institute, Aarhus University, Denmark, pp 65-76

PRESENTATIONS AT SCIENTIFIC MEETINGS

- (2015) **Krawczyk, D.**, Witkowski, A., Moros, M., Miettinen, A. Late-Holocene oceanographic changes in the West Greenland waters based on marine diatoms. *Ilulissat Climate Days*, Ilulissat, Greenland
- (2015) **Krawczyk, D.**, Witkowski, A., Moros, M., Juul-Pedersen, T., Arendt, K.E., Mortensen, J. The 'Little Ice Age' warming in the West Greenland waters based on diatom microfossils. *Arctic Science Summit Week*, Toyama, Japan
- (2014) **Krawczyk, D.**, Arendt, K.E., Juul-Pedersen, T., Mortensen, J., Blicher, M.E., Sejr, M.K., Jacobsen, H.H., Witkowski, A., Rysgaard, S. What drives micro-plankton (phytoplankton) community structure and species diversity in offshore waters and fjords in Greenland? *Arctic Biodiversity Congress*, Trondheim, Norway
- (2012) **Krawczyk, D.** Arctic diatoms. *Second Workshop on Siliceous Microorganisms*, Szczecin, Poland
- (2012) **Krawczyk, D.**, Witkowski, A., Kierzek, A., Harff, J. Diatom-based contribution to the Inundation history of the Wismar Bay during the Late Mesolithic. *Climate change, economy, law and society – interactions in BSR*, Szczecin, Poland
- (2011) **Krawczyk, D.**, Witkowski, A., Moros, M., Lloyd, J., Kuijpers, A., Juul-Pedersen, T., Wroniecki, M., Waniek, J. Diatoms off West Greenland: ocean-climate forcing versus local implications. *3rd Polar Marine Diatom Workshop*, Macquarie University, Sydney, Australia
- (2011) **Krawczyk, D.**, Witkowski, A., Moros, M., Lloyd, J., Juul-Pedersen, T. The comparative analysis of modern and fossil diatom flora in terms of ocean forcing and climate changes. *5th Central European Diatom Meeting*, Szczecin, Poland
- (2010) **Krawczyk, D.**, Witkowski, A., Moros, M., Lloyd, J., Juul-Pedersen, T. *Thalassiosira* species off the West Greenland: *Thalassiosira kushirensis* vs *Thalassiosira antarctica* var. *borealis*. *21st International Diatom Symposium*, St Paul-Minneapolis, USA
- (2010) **Krawczyk, D.**, Witkowski, A., Moros, M., Lloyd, J., Kuijpers, A., Waniek, J., Płociński, T. Palaeoclimatic reconstructions off West Greenland based on diatom assemblages from plankton and marine sediments. *40th International Arctic Workshop*, Winter Park (Colorado), USA
- (2010) **Krawczyk, D.**, Witkowski, A., Moros, M., Lloyd, J., Kuijpers, A., Wroniecki, M., Waniek, J. Late Holocene hydrographic variability in Disko Bugt, West Greenland based on a diatom record. *International Polar Year*, Oslo, Norway
- (2009) **Krawczyk, D.**, Witkowski, A., Moros, M., Lloyd, J. Diatomological analysis of the late Holocene sediments: Western Greenland paleoecology of the Holocene. *Greenland workshop: Holocene paleoenvironment of Western Greenland*, Szczecin, Poland
- (2009) **Krawczyk, D.**, Witkowski, A., Moros, M., Lloyd, J., Kuijpers, A. Hydrographic variability in Disko Bugt, West Greenland based on a c. 1.6-ka diatom high-resolution record. *28th International Phycological Conference: Algal biodiversity in ecosystems of protected areas*, Cieszyno Drawskie, Poland
- (2009) **Krawczyk, D.**, Witkowski, A. Diatomological indicators for environmental change in the Wismar Bay after the Littorina Transgression. *SINCOS workshop*, Warnemünde, Germany

INTERNATIONAL RESEARCH COLLABORATIONS

- Geological Survey of Denmark and Greenland (Denmark)
- Danish Meteorological Institute (Denmark)
- Aarhus University (Denmark)
- Norwegian Polar Institute (Norway)
- Leibniz Institute for Baltic Sea Research (Germany)
- Durham University (UK)

- University of Szczecin (Poland)
- Université du Québec à Montréal (Canada)
- University of Vermont (USA)