

Curriculum vitae

Name: Katarzyna Zamelczyk

E-mail katarzyna.zamelczyk@uit.no, **Phone** +47 45091349

https://uit.no/ansatte/person_Zamelczyk

EDUCATION

- 2007– 2012 Doctor in Philosophy (Ph.D.) in Marine Sciences at the Department of Geosciences, The Arctic University of Norway, Tromsø, Norway
PhD thesis: Arctic Ocean warmings from the last glaciation to the present: implementing and assessing the reliability of planktic foraminiferal paleoreconstructions
- 1996–2002 Master of Science in Geography, University of Szczecin, Szczecin, Poland
MSc thesis: Changes in sedimentary environment of the Pomeranian Bay during the Late-Glacial and Holocene in the light of the diatom analysis.

POSITIONS AND DUTIES

- 2022- *now* **Research Advisor** in the Project Office at the Faculty of Health Sciences - UiT – The Arctic University of Norway, Tromsø
- 2021-2022 **Guest Researcher**, Department of Geosciences UiT – The Arctic University of Norway, Tromsø
- 2020 Institute of Marine Research, Oceanography and climate –Tromsø, Norway
- 2020 **Postdoctoral Researcher** Centre for Arctic Gas Hydrate, Environment and Climate (CAGE) – Norwegian Centre of Excellence, UiT
- 2020–2019 **Postdoctoral Researcher** Norwegian Polar Institute, Tromsø, NO
- 2019–2015 **Postdoctoral Researcher** CAGE, UiT, Arctic University of Norway, Tromsø
January 2017– January 2018 Maternity leave
July 2018– June 2019 Leader group with administrative duties (working package WP6 (five persons) at CAGE
- 2015–2012 **Post Doc and leader of a project** (Effects of ocean chemistry changes on planktic foraminifera in the Fram Strait: Ocean Acidification from natural to anthropogenic changes funded by the Norwegian Research Council), CAGE, the Arctic University of Norway.
- 2007– 2012 Research fellow at UiT (please see “Education“)
- 2006–2007 **Internship** (diatom analyses and data compilation and management)
GeoForschung Zentrum Potsdam, Germany, Climate Dynamics and Sediments
- 2004–2006 (1) **volunteer assistant** Department of Special Botany, University of Rostock, Rostock, Germany and (2) **Translator and project assistant** Integrated Coastal Zone Management – the Oder, Leibniz Institute for Baltic Sea Research (IOW), Rostock– Warnemuende, Germany
- 2003–2004 Kempinski Grand Hotel, Heiligendamm, Germany, florist and interior decorator
- 2002–2003 **Laboratory assistant** Leibniz Institute for Baltic Sea Research, Rostock- Warnemuende (IOW), Germany

BIOGRAPHY (research activities and interest)

Katarzyna Zamelczyk took her M.Sc. in marine geography and marine micropaleontology at the University of Szczecin, Poland and spent several research stays at Institute of Baltic Research

(IOW), Rostock-Warnemuende and GeoForschung Zentrum Potsdam in Germany. Kasia took her PhD degree in marine sciences that includes physical oceanography, biology, marine geology and micropalaeontology at the Department of Geosciences at the Arctic University of Norway, Tromsø, and, later, she worked as a researcher at the Centre of Excellence for Arctic Gas Hydrate, Environment and Climate, UiT. She spent several research stays at Institute of Baltic Research (IOW), Rostock-Warnemuende, at the Department of Special Botany, University of Rostock, and GeoForschung Zentrum Potsdam in Germany and a research stay at the GEOTOP-UQAM-McGill Research Center, Université du Québec à Montréal, and two research stays at AWI, Bremerhaven (Biosciences). Zamelczyk has conducted research in the Baltic Sea and the European part of the Arctic Ocean. She participated in more than 19 international and national (Norwegian) scientific marine expeditions (e.g. on the RV CCGS Amundsen - Canadian Research Icebreaker; Alexander von Humboldt - Leibniz Institute for Baltic Sea Research, Warnemuende; Polarstern - AWI; and Helmer Hanssen - The Arctic University of Norway, Tromsø; RV Kronprins Haakon - Norwegian icebreaking polar research vessel, Norwegian Polar Institute), several expeditions as co-PI. In addition, she had experience in daily management of science, coordinating and tracking of assignments, scopes, schedule budgets and development of research strategy and action plans, as well as valuable experience in teamwork, research leadership and communication. In August 2022, Kasia moved into an advisor role on external proposal funding in the Project Office at the Faculty of Health Sciences, UiT. Now, her goal is to support scientists to put their research visions into words while aiding in keeping track of ever-evolving rules and regulations required for making their proposals competitive for research funding.

SUPERVISION AND TEACHING EXPERIENCE

Co-supervision of two PhD students (Griselda Anglada-Ortiz – Nansen Legacy Project Phd and Siri Ofstad) at CAGE and three master students at the Department of Geosciences, UiT- The Arctic University of Norway

Teaching:

2018 - **(1)** Reconstructing Quaternary Marine Climate and Environments **GEO3111**, UiT; 48 h teaching and exercises + three days cruise; **(2)** Micropaleontology **GEO3122**, UiT; 48 h teaching and exercises.

2017 - Micropaleontology GEO3122, UiT; 2 h lecture; topic: Planktic foraminifera + 2 h exercises

2015-2016 - Co-teacher during several cruises GEO-8144/GEO-3144

RECEIVED FUNDING AND AWARD

2016	300 kNOK funding for ocean acidification research in the Arctic from the Fram Centre Flagship program, Fram Center, Tromsø
2012	Nominated to the Arctic frontiers emerging leaders program, UiT
2012	8000 kNOK funding for post doc project “Effects of ocean chemistry changes on planktonic foraminifera in the Fram Strait: Ocean Acidification from natural to anthropogenic changes” Research Council of Norway
2012	2.5 month transition grant (overgang stipend) from the UiT
2011	25 kNOK extra funding for attending the Arctic Workshop in Montreal, Canada from ResClim The Norwegian Research School in Climate Dynamics)
2010	10 kNOK extra funding for attending the APEX conference in Iceland, from ResClim (The Norwegian Research School in Climate Dynamics)

COURSES

- European Research Council and Research Council of Norway - Project development, management, financing and budgeting courses, 2015-2022, Norway
- Conflict management & intercultural competence - How to avoid conflicts and benefit from differences, AWI, Bremerhaven, trainer- Julia Hookway, Golin Wissenschafts managment, Hamburg 2014, March 27-28

OUTREACH

- 2018 **Zamelczyk, K.**, poster presentation, Nordic CO₂ Days at the Northern Norwegian Science Center, Tromsø.
- 2015 **Zamelczyk, K.**, Sojtaric, M., New methane sensor installed in the Arctic Ocean, <https://factsfromthefield.wordpress.com/2015/10/28/what-are-foraminifera/>, CAGE webpage.
- Zamelczyk, K.**, Sojtaric, M., What are foraminifera? CAGE webpage, <https://cage.uit.no/news/new-methane-sensor-installed-in-the-arctic-ocean/>.
- 2010 **Zamelczyk, K.**, Arctic climate variations in geological perspective- oral presentation (given in English, German and Polish) for tourists on board MS North Star Hurtigrutene, within the "Stand-up scientists" initiative where scientists were giving talks all over Europe at a variety of public places as a part of the EU initiative Researchers' Night.
- 2009 Jessen, S.P; Aagaard-Sørensen, S., **Zamelczyk, K.** Oceanography, Palaeoceanography and Climate. Part of the Teacher's Guide to the exhibition TRACK - On the trail of past climate. Science Center in Trondheim, Trondheim, and 6 other cities 2009-2013.
- 2008–2011 Jessen, S.P., Aagaard-Sørensen, S., **Zamelczyk, K.**, Expedition exhibition. Traveling palaeogeological exhibition for middle school pupils. Nordnorsk Vitensenteret (Norwegian Science Center of Northern Norway, Tromsø).

OTHERS

Languages and other skills: Fluent spoken and written Polish and English, very good in written and spoken Norwegian and German

Good IT knowledge in: Windows Microsoft RStudio, Ocean Data View, Grapher, Coreldraw, Adobe Photoshop,

Commissions: 2019 - Internal sensor for master's thesis, Department of Geosciences, UiT

PUBLICATIONS

18 publications (2 under review), > 9 oral talks; > 49 published conference abstracts; > 7 cruise reports

Publications: in-refereed journals

(*Zamelczyk supervised PhD students in blue. Citations from google scholar until 2018 in italic*)

- Ofstad, S., Meilland, J., **Zamelczyk, K.**, Rasmussen, T., Seidenkrantz, M-S. Northeast Greenland planktonic foraminiferal fauna: present distribution patterns and paleo-perspectives, Under review in *Frontiers in Marine Science*, 2022.
- Greco, M., Werner, K., **Zamelczyk, K.**, Rasmussen, T., Kucera, M. Decadal trend of plankton community change and habitat shoaling in the Arctic gateway recorded by planktonic foraminifera. *Global change biology*, 2022.
- **Zamelczyk, K.**, Fransson, A., Chierici, M., Jones, E., Meilland, J., **Anglada-Ortiz, G.**, Hodal Lødemel, H. Distribution and abundances of planktic foraminifera and shelled pteropods during the polar night in the sea-ice covered northern Barents Sea. *Frontiers in Marine Science* 2021.
- Ezat, M.M., Rasmussen, T., Hain, M.P., Skinner, L.C., Greaves, M., Rae, J.B.W., **Zamelczyk, K.**, Marchitto, T.M., Szidat, S. Deep Arctic storage and release of CO₂ and heat during the last glacial period. *Paleoceanography and Paleoclimatology* 2021.
- **Anglada-Ortiz, G.**, **Zamelczyk, K.**, Meilland, J., Ziveri, P., Chierici, M., Fransson, A., Rasmussen, T.L. Planktic foraminiferal and pteropod contributions to carbon dynamics in the Arctic Ocean (north Svalbard margin). *Frontiers in Marine Science* 2021.

- Ofstad, S., **Zamelczyk, K.**, Kimoto, K., Chierici, M., Fransson, A., Rasmussen. Shell density of planktonic foraminifera and pteropod species *Limacina helicina* in the Barents Sea: relation to ontogeny and water chemistry. *Plos One*, **2021**.
- **Zamelczyk, K.**, Rasmussen, T. L., Raitzsch, M., Chierici, M. The last two millennia: climate, ocean circulation and palaeoproductivity inferred from planktic foraminifera, south-western Svalbard margin. *Polar Research*, 39, **2020**.
- Greco, M., Meilland, J., **Zamelczyk, K.**, Rasmussen, T.L., Kucera, M. The effect of an experimental decrease in salinity on the viability of the subarctic planktonic foraminifera *Neogloboquadrina incompta*. *Polar Research*, **2020**.
- Ofstad, S., Meilland, J., **Zamelczyk, K.**, Chierici, M., Fransson, A., Gründger, F., Rasmussen, T. Development, productivity and seasonality of living planktonic foraminiferal faunas and *Limacina helicina* in an area of intense methane seepage in the Barents Sea. *Journal of Geophysical Research – Biogeosciences*, **2020**.
- Ezat, M.M., Rasmussen T.L., Skinner, L.C, **Zamelczyk, K.** Deep ocean ¹⁴C ventilation age reconstructions from the Arctic Mediterranean reassessed. *Earth and Planetary Science Letters*, 518, 67–75, **2019**.
- Limoges, A., Ribeiro S., Weckström, K., Heikkilä, Maija; **Zamelczyk, K.**; Andersen, T., Tallberg, P., Massé, G., Rysgaard, S., Nørgaard-Pedersen, N., Seidenkrantz, M-S., Linking the modern distribution of biogenic proxies in High Arctic Greenland shelf sediments to sea ice, primary production and Arctic-Atlantic inflow. *Journal of Geophysical Research – Biogeosciences*, 123(3), 760–786, **2018**, (22 citations).
- **Zamelczyk, K.**, Husum, K., Rasmussen, T.L., Godtlielsen, T.L., Hald, M. Surface water conditions and calcium carbonate preservation in the Fram Strait during marine isotope stage 2, 28.8–15.4 kyr, *Paleoceanography* 29, **2014**, (25 citations)
- **Zamelczyk, K.**, Rasmussen, T.L., Husum, K., Hald, M. Marine calcium carbonate preservation vs. climate change over the last two millennia in the Fram Strait: Implications for planktic foraminiferal paleostudies. *Marine Micropaleontology*, 14–27, **2013**, (23 citations).
- **Zamelczyk, K.**, Rasmussen, T.L., Husum, K., Haflidason, H., de Vernal, A., Ravna, E.K., Hald, M., Hillaire-Marcel, C. Paleooceanographic changes and calcium carbonate dissolution in the central Fram Strait during the last 20 ka. *Quaternary Research*, 78, 405–416, **2012**, (45 citations)
- Werner, K., Spielhagen, R. F., Bauch, D., Hass, H.Ch., Kandiano, E., **Zamelczyk, K.** Atlantic Water advection to the eastern Fram Strait- multiproxy evidence for late Holocene variability. *Palaeogeography Palaeoclimatology Palaeoecology* 308, 264–276, **2011**, (57 citations).
- Spielhagen, R.F, Werner, K., Aagaard-Sørensen, S., **Zamelczyk, K.**, Kandiano, E., Budeus, G., Husum, K., Marchitto, T., Hald, M. Enhanced modern heat transfer to the Arctic by warm Atlantic Water. *Science* 331, 450, **2011**, (385 citations).
- Kierzek, A., **Zamelczyk, K.**, Witkowski, A., Borówka, R.K, Szafer, I. Environmental changes of the Pomeranian Bay and Świna Gate during the Holocene in the light of the diatom analysis in Kozminski, C., Dutkowski, M., Radziejewska, T., 2006. *Human and Environment of Western Pomerania*, 118–125, **2006**.