

List of scientific or artistic achievements constituting a significant contribution to the development of a specific discipline

Information contained in individual points of this document should take into account the division into the period before obtaining the doctoral degree and after obtaining it.

I. LIST OF SCIENTIFIC OR ARTISTIC ACHIEVEMENTS, REFERRED TO IN ARTICLE 219, SECTION 1. POINT 2 OF THE ACT**1. Scientific monographs, in accordance with Article 219, Section 1. Point 2a of the Act**

Not applicable

2. A cycle of thematically related scientific articles, in accordance with Article 219, Section 1. Point 2b of the Act**All after obtaining doctoral degree**

Pieńkowski, A.J., England, J.H., Furze, M.F.A., Blasco, S., Mudie, P.J., MacLean, B., 2013. 11,000 years of environmental change in the Northwest Passage: a multiproxy record from central Parry Channel. *Marine Geology*, Elsevier, vol. 341, 2013, p. 68–85; DOI: <https://doi.org/10.1016/j.margeo.2013.04.008>

Pieńkowski, A.J., Husum, K., Belt, S.T., Ninneman, U., Köseoğlu, D., Divine, D., Smik, L., Knies, J., Hogan, K., Noormets, R. 2021. Seasonal sea ice persists through the Holocene Thermal Maximum at 80°N. *Communications Earth & Environment*, Nature Publishing Group, vol. 2, article number 124; DOI: <https://doi.org/10.1038/s43247-021-00191-x>

Pieńkowski, A.J., Szczuciński, W., Breszka, A., Chyleński, M., Juras, A., Romel, P., Rozwalak, P., Trzebny, A., Dabert, M., Belt, S.T., Jagodziński, R., Smik, L., Włodarski, W. 2024. Sedimentary ancient DNA and HBI biomarkers as sea-ice indicators: A complementary approach in Antarctic fjord environments. *Limnology & Oceanography Letters*, Wiley Blackwell, article number 10395; DOI: <https://doi.org/10.1002/lol2.10395>

Pieńkowski, A.J., Coulthard, R.D., Furze, M.F.A. 2023. Revised marine reservoir offset (ΔR) values for molluscs and marine mammals from Arctic North America. *Boreas*, Wiley-Blackwell, vol. 52, p. 145-167; DOI: <https://doi.org/10.1111/bor.12606>

Pieńkowski, A.J., Kennaway, S., Lang, S.I. 2020. Aquatic palynomorphs from modern marine sediments in a reconnaissance transect across the Northwest Passage – Baffin Bay region. *Marine Micropaleontology*, Elsevier, vol. 156, article number 101825; DOI: <https://doi.org/10.1016/j.marmicro.2020.101825>

Heikkilä, M., S. Ribeiro, Weckström, K., **Pieńkowski, A.J.**, 2022. Predicting the future of coastal marine ecosystems in the rapidly changing Arctic: The potential of palaeoenvironmental records. *Anthropocene*, Elsevier, vol. 37, article number 100319; DOI: <https://doi.org/10.1016/j.ancene.2021.100319>

3. Original design, construction, technological or artistic achievements performed, in accordance with Article 219, Section 1, point 2c of the Act;

Not applicable

4. Scientific or artistic achievements other than those listed in points I.1-3.

After doctoral degree [*indicates supervised students]:

Bird, C., Darling, K., Thiessen, R.*, **Pieńkowski, A.J.** 2025. The 16S rDNA microbiome of the Arctic foraminifera *Neogloboquadrina pachyderma* is comprised of hydrocarbon-degrading bacteria and a diatom chloroplast store. *Biogeosciences*, 22, 4545–4577, <https://doi.org/10.5194/bg-22-4545-2025>

Pieńkowski, A.J., Husum, K., Furze, M.F.A., Missana, A.F.J.M., Irali, N., Divine, D.V., Trælvik Eilertsen, V. 2022. Revised ΔR values for the Barents Sea and its archipelagos as a pre-requisite for accurate and robust marine-based ^{14}C chronologies. *Quaternary Geochronology* 68, 101244; <https://doi.org/10.1016/j.quageo.2021.101244>

Farnsworth, W.R., Ingólfsson, Ó., Mannerfelt, E.S., Kalliokoski, M.H., Guðmundsdóttir, E.R., Retelle, M., Allaart, L., Brynjólfsson, S., Furze, M.F.A., Hancock, H.J., Kjær, K.H., **Pieńkowski, A.J.**, Schomacker, A. 2021. Vedde Ash constrains Younger Dryas glacier re-advance and rapid glacio-isostatic rebound on Svalbard. *Quaternary Science Advances* 5, 100041; <https://doi.org/10.1016/j.qsa.2021.100041>

Martens, J., Romankevich, E., Semiletov, I., Wild, B., van Dongen, B., Vonk, J., Tesi, T., Shakhova, N., Dudarev, O.V., Kosmach, D., Vetrov, A., Lobkovsky, L., Belyaev, N., Macdonald, R., **Pieńkowski, A.J.**, Eglinton, T.I., Haghypour, N., Dahle, S., Carroll, M.L., Åström, E.K.L., Grebmeier, J.M., Cooper, L.W., Possnert, G., Gustafsson, Ö. 2021. CASCADE - The Circum-Arctic Sediment CARbon DatabasE. *Earth System Science Data* 13, 2561–2572; <https://doi.org/10.5194/essd-13-2561-2021>

Cage, A.G., **Pieńkowski, A.J.**, Jennings, A., Knudsen, K.L., Seidenkrantz, M.-S. 2021. Comparative analysis of six common foraminiferal species of the genera *Cassidulina*, *Paracassidulina*, and *Islandiella* from the Arctic-North Atlantic domain. *Journal of Micropalaeontology* 40, 37–60; <https://doi.org/10.5194/jm-40-37-2021>

Scourse, J.D., Saher, M., Van Landeghem, K.J.J., Lockhart, E., Purcell, C., Callard, L., Roseby, Z., Allinson, B., **Pieńkowski, A.J.**, O’Cofaigh, C., Praeg, D., Chiverrell, R., Clark, C. 2019. Advance and retreat of the marine-terminating Irish Sea Ice Stream into the Celtic Sea during the Last Glacial Maximum: timing and maximum extent. *Marine Geology* 412, 53–68; <https://doi.org/10.1016/j.margeo.2019.03.003>

El Bani Altuna, N.*, **Pieńkowski, A.J.**, Eynaud, F., Thiessen, R.* 2018. The morphotypes of *Neogloboquadrina pachyderma*: isotopic signature and distribution patterns in the Canadian Arctic Archipelago and adjacent regions. *Marine Micropaleontology* 142, 13-24; <https://doi.org/10.1016/j.marmicro.2018.05.004>

Lakeman, T.R., **Pieńkowski, A.J.**, Nixon, F.C., Furze, M.F.A., Blasco, S., Andrews, J.T., King, E.L. 2018. Collapse of a marine-based ice stream during the early Younger Dryas chronozone, western Canadian Arctic. *Geology* 46, 211–214; <https://doi.org/10.1130/G39665.1>

Roberts, K.E., Lamoureux, S.F., Kyser, T.K., Muir, D.G.C., Lafreniere, M.J., Iqaluk, D., **Pieńkowski, A.J.**, Normandeau, A. 2017. Climate and permafrost effects on the chemistry and ecosystems of High Arctic Lakes. *Scientific Reports* 7, 13292; <https://doi.org/10.1038/s41598-017-13658-9>

Furze, M.F.A., **Pieńkowski, A.J.**, McNeely, M.A.* , Bennett, R., Cage, A.G. 2017. Deglaciation and ice shelf development at the northeast margin of the Laurentide Ice Sheet. *Boreas* 47, 271-296; <https://doi.org/10.1111/bor.12265>

- Mertens, K.N., Takano, Y., Gu, H., Bagherid, S., Pospelova, V., **Pieńkowski, A.J.**, Leroy, S., Matsuoka, K. 2017. Cyst-theca relationship and phylogenetic position of *Impagidinium caspiense* incubated from Caspian Sea surface sediments: evidence for heterospory within Gonyaulacoid dinoflagellates. *Journal of Eukaryotic Microbiology* 64, 829-842; <https://doi.org/10.1111/jeu.12417>
- MacLean, B., Blasco, S., Bennett, R., Lakeman, T., **Pieńkowski, A.J.**, Furze, M.F.A., Hughes Clarke, J., Patton, E. 2017. Seafloor features delineate Late Wisconsinan ice stream configurations in eastern Parry Channel, Canadian Arctic Archipelago. *Quaternary Science Reviews* 160, 67-84; <https://doi.org/10.1016/j.quascirev.2017.02.001>
- Pieńkowski, A.J.**, Gill, N.*, Furze, M.F.A., Mugo, S., Marret, F., Perreux, A.* 2016. Arctic sea-ice proxies: a comparison between biogeochemical and micropalaeontological approaches from Arctic Canada. *The Holocene* 27, 665-682; <https://doi.org/10.1177/0959683616670466>
- Pieńkowski, A.J.**, England, J.H., Furze, M.F.A., MacLean, B., Vilks, G., Blasco, S. 2014. The late Quaternary environmental evolution of marine Arctic Canada: Barrow Strait to Lancaster Sound. *Quaternary Science Reviews* 91, 184-203; <https://doi.org/10.1016/j.quascirev.2013.09.025>
- Furze, M.F.A., **Pieńkowski, A.J.**, Coulthard, R.D. 2014. New cetacean ΔR values for Arctic North America and their implications for marine-mammal-based palaeoenvironmental reconstructions. *Quaternary Science Reviews* 91, 218-241; <https://doi.org/10.1016/j.quascirev.2013.08.021>
- Furze, M.F.A., Scourse, J.D., **Pieńkowski, A.J.**, Marret, F., Hobbs, W.O., Carter, R.A., Long, B. 2014. Deglacial to postglacial palaeoenvironments of the Celtic Sea: lacustrine conditions versus a continuous marine sequence. *Boreas* 43, 149–174; <https://doi.org/10.1111/bor.12028>
- Pieńkowski, A.J.**, Marret, F., Scourse, J.D., Thomas, D.N. 2013. Organic-walled microfossil assemblages from the NW Weddell Sea, Antarctica: records from surface sediments after the collapse of the Larsen-A and Prince Gustav Channel ice-shelves. *Antarctic Science* 25, 565–574; <https://doi.org/10.1017/S0954102012001186>
- Mertens, K.N., Yamaguchi, A., Takano, Y., Pospelova, V., Head, M.J., Radi, T., **Pieńkowski, A.J.**, de Vernal, A., Kawami, H., Matsuoka, K. 2013. A new heterotrophic dinoflagellate from the Northeastern Pacific, *Protoperidinium fukuyoi*: cyst-theca relationship, phylogeny, distribution and ecology. *Journal of Eukaryotic Microbiology* 60, 545-563; <https://doi.org/10.1111/jeu.12058>
- Pieńkowski, A.J.**, England, J.H., Furze, M.F.A., Marret, F., Eynaud, F., Vilks, G., MacLean, B., Blasco, S. & Scourse, J.D. 2012. The deglacial to postglacial environments of SE Barrow Strait, Canadian Arctic Archipelago. *Boreas* 41, 141-179; <https://doi.org/10.1111/j.1502-3885.2011.00227.x>
- Before doctoral degree:**
- Pieńkowski, A.J.**, Mudie, P.J., England, J.H., Smith, J.N., Furze, M.F.A. 2011. Late Holocene conditions in Coronation Gulf, Canadian Arctic Archipelago: evidence from dinoflagellate cysts, other non-pollen palynomorphs, and pollen. *Journal of Quaternary Science* 26, 839-853; <https://doi.org/10.1002/jqs.1503>

Haapaniemi, A.I., Scourse, J.D., Peck, V.L., Kennedy, H., Kennedy, P., Hemming, S.R., Furze, M.F.A., **Pieńkowski, A.J.**, Austin, W.E.N., Walden, Wadsworth, J.E., Hall, I.R., 2010. Source, timing, frequency and flux of ice-rafted detritus to the Northeast Atlantic margin, 30-12 ka: testing the Heinrich precursor hypothesis. *Boreas* 39, 576-591; <https://doi.org/10.1111/j.1502-3885.2010.00141.x>

Coulthard, R.D., Furze, M.F.A., **Pieńkowski, A.J.**, Nixon, C.F., England, J.H. 2010. New marine ΔR values for Arctic Canada. *Quaternary Geochronology* 5, 419-434; <https://doi.org/10.1016/j.quageo.2010.03.002>

Furze, M.F.A., **Pieńkowski, A.J.**, England, J.H. 2010. Comment: Holocene palaeoceanographic changes in Barrow Strait, Canadian Arctic: foraminiferal evidence by Gregory et al. 2010. *Journal of Quaternary Science* 25, 1189-1192; <https://doi.org/10.1002/jqs.1433>

Pieńkowski, A.J., Marret, F., Thomas, D.N., Scourse, J.D. & Dieckmann, G.S. 2009. Dinoflagellates from a fast-ice covered inlet in the Weddell Sea (Antarctica). *Polar Biology* 32, 1331–1343; <https://doi.org/10.1007/s00300-009-0630-5>

II. LIST OF SCIENTIFIC OR ARTISTIC ACTIVITY

1. List of membership in scientific editorial boards of monographs.

Not applicable

2. List of speeches at national or international scientific or artistic conferences, with specification of invited lectures and plenary lectures.

After obtaining doctoral degree – selected examples

2024 (Sep) 4th INQUA-MARE workshop at XIX ABEQUA Congress, Rio Grande de Do Norte, Brasil. (online)
Invited keynote: Polar fjords as sensitive archives of past and future climate warming

2021 (Dec) INQUA MARE 2022, Pisa, Italy.
Invited keynote: Microfossils: a window into past, present, and future polar environments

2019 (Mar) International Symposium on Cryosphere & Biosphere, Kyoto, Japan
Talk: Pieńkowski, A.J. Biogeochemical (biomarker) approaches to Arctic sea-ice reconstructions in Arctic North America: the present as a key to the past.

2018 (Apr) IODP Pre-proposal workshop FANA (Fjord Archives Eastern Atlantic), Vienna, Austria.
Invited keynote 1: Dating deglacial sequences: perspectives from Arctic Canada
Invited keynote 2: Micropaleontological proxies in high-latitude settings

2018 (Aug) American Association of Stratigraphic Palynologists-The Palynological Society-Canadian Association of Palynologists AGM, Calgary, Canada
Talk: Pieńkowski, A.J. Non-pollen palynomorphs (NPPs) in the marine

sediments of Arctic Canada: a valuable paleoenvironmental tool in the late Quaternary.

2016. (Dec) CommOcean 2016, Bruges, Belgium
Invited plenary talk: Pieńkowski, A.J. Arctic marine geoscience: a hidden world uncovered? (presenting author)

2015. (May) Arctic Science Summit Week, Toyama, Japan.
Talk: Pieńkowski, A.J. The late Quaternary of Arctic Canada: the interplay of climate, sea-level, ice, and oceans.

2014 (Mar) National University of Ireland Galway.
Invited talk: Pieńkowski, A.J. Fossil bowhead whales (*Balaena mysticetus*) as indicators of ancient sea-ice in the Northwest Passage

2013 (Nov) BRITICE-CHRONO 2nd Annual Meeting, Buxton, UK
Invited talk: Pieńkowski, A.J. Micropalaeontology as a dating tool

Before obtaining doctoral degree – selected examples

2008 (Apr) Bedford Institute of Oceanography/Geological Survey of Canada, Dartmouth, Nova Scotia, Canada.
Invited talk: Pieńkowski, A.J. Environmental change in High Arctic Canada following the last glaciation: a marine perspective.

2006 (Sep) School of Ocean Science Occasional Lectures, Ocean Sciences, Bangor University, UK.
Invited talk: Pieńkowski, A.J. Environmental change in High Arctic Canada following the last glaciation.

2004 (Mar) Glaciology Research Group Bi-monthly Lecture Series, Dept. of Earth & Atmospheric Science, University of Alberta, Edmonton, Alberta, Canada.
Invited talk: Pieńkowski, A.J. Beautiful Critters: an introduction to dinoflagellates.

3. List of participation in organizational and scientific committees of national or international conferences, with specifying the function performed.

After obtaining doctoral degree – selected examples

2025. PAGES 7th Open Science Meeting. Shanghai, China. Session Co-convener.

2022. 51st Arctic Workshop. UNIS, Svalbard, Norway. Member of organizing committee.

2021. PAST ACME Workshop: '*Numerical ecology and time series analysis of marine proxy data*'. Copenhagen, Denmark. Member of organizing committee

2023. European Geosciences Union General Assembly, Vienna, Austria. Session Co-Convener

2021. PAST ACME Workshop: '*Towards reliable proxy-based reconstructions: community perspectives and criteria for the ACME database*'. Tvärminne, Finland. Member of organizing committee

2020. European Geosciences Union General Assembly, Vienna, Austria. Session Co-Convener

2016. European Geosciences Union General Assembly, Vienna, Austria. Session Co-Convener

2012. European Geosciences Union General Assembly, Vienna, Austria. Session Co-Convener

Before obtaining doctoral degree – selected examples

2006-2008 Canadian Circumpolar Institute Student Association Annual Symposium, Member of organizing committee, University of Alberta, Canada

2005 35th Arctic Workshop 2005 Member of organizing committee, University of Alberta, Canada

4. List of participation in works of research teams implementing projects financed by way of national or international competitions, with division into completed projects and projects in the course of performance and with taking into account the information on the function performed within the framework of works of the teams.

Ongoing projects [all after doctoral degree]:

- OPUS Grant, National Science Centre Poland (2023-2027). PI on 'APHRODITE' (Arctic Palaeorecords from the Htm: a ROaDmap for Imminent Transitions in marine Ecosystems). Value: € 445,000
- Working Group, PAGES (Past Global Changes) (2023-2026). Co-I on 'ACME (Arctic Cryosphere Change and Coastal Marine Ecosystems) Phase II' Official PAGES Working Group. No monetary value

Completed projects [all after doctoral degree]:

- POLS Grant, Norwegian Grants & National Science Centre Poland (2021-2023). PI on 'CHARME' (CHanging AntaRctic Marine Environments). Value: € 200,000
- Svalbard Strategic Grant, The Research Council of Norway (2020-2021). PI on 'SVALHOLA (SVALbard HOlocene Assembly) Workshops'. Value: NOK 250,000
- Workshop Grant, PAGES (Past Global Changes) (2019-2021). PI on 'The 1st ACME (Arctic Cryosphere Change and Coastal Marine Ecosystems) workshop'. Value: USD 9,600
- NERC Radiocarbon Fund, NERC (Natural Environment Research Council) (2019-2020). Co-I on 'Reconnection of Pacific, Arctic, and Atlantic oceans via Arctic Canada following Termination I: palaeoceanography of a major oceanic gateway'. PI: A. Cage, Keele U. Value: £ 12,000
- Working Group, PAGES (Past Global Changes) (2019-2023). Co-I on 'ACME (Arctic Cryosphere Change and Coastal Marine Ecosystems)' Official PAGES Working Group. No monetary value

- Research Incentive Grant, The Carnegie Trust (2019-2020). Co-I on 'Microbiome profiling of planktonic foraminifera: understanding ecological dependencies in a changing climate', PI: Clare Bird, Stirling U. Value: £ 10,000
- Liberal Arts and Sciences Fellowship, Keele University (UK) (2018-2019) for research visit to Keele University. Fellow on 'Blue carbon and ice-ocean interactions in polar environments'. £3,500
- Deutsche Forschungsgemeinschaft Research Fellowship (2018-2020), German Research Council. International Cooperation Partner on 'Reconstructing the Holocene Variability of the Strength and Radiogenic Isotope Composition of Labrador Sea Water'. PI: Alexandra Filippova, GEOMAR. Value: € 65,000
- MacEwan University Strategic Research Grant, MacEwan University (2018-2020). PI on 'De-icing Antarctica: from present to past.' Value: CAD \$20,000
- Faculty of Arts and Science Project Fund, MacEwan University (2018). PI on 'Small is mighty: Improving the use of microfossils as tracers of Arctic climate.' Value: CAD \$5,000
- 2017 MacEwan University Strategic Research Grant, MacEwan University (2017-2019). Co-I on 'Microplastics in aquatic environments'; PI: Matt Ross, MacEwan University. Value: CAD \$22,500
- Gordon & Jean Southam Titular Fellowship, Association of Commonwealth Universities (ACU) (2016-2017). Fellow on 'Sclerochronology of Arctic Canada'. Value: £5,000
- Discovery Grant, Natural Sciences and Engineering Research Council of Canada (NSERC) (2016-2021). PI on 'The Arctic-Atlantic gateway of the Northwest Passage: oceanic exchange, paleoceanography, paleoclimate, proxy calibration and refinement'. Value: CAD \$120,000
- MacEwan Internal Research Fund, MacEwan University (2016-2018). PI on 'RAPIDE (Researching Arctic Paleoceanographic Indicators of Deglacial Environments).' Value: CAD \$7,000
- MacEwan Dissemination Grant, MacEwan University (2016), for attendance at CommOcean 2016, Bruges, Belgium, Dec 2016. Value: CAD \$2,900
- ArcticNet Phase 4, Natural Sciences and Engineering Research Council of Canada (NSERC) (2015-2018). Co-I on 'Mapping of Arctic Canada's Seafloor: Contributions to Global Change Science, Sustainable Resource Development, Safe Navigation of the Northwest Passage, Geohazards and Arctic Sovereignty'; PI: P. Lajeunesse, Université Laval, Canada. Value: CAD \$498,000
- Systematics Research Fund, Linnean Society of London & Systematics Association (2015-2016); PI on 'Foraminifera from Arctic Canada: a 21st Century baseline for biomonitoring and palaeoclimatology.' Value: £1,000
- MacEwan Dissemination Grant, MacEwan University (2015), for attendance at XIX. INQUA Congress, Nagoya, Japan, July/August 2015. Value: CAD \$3,000

- MacEwan Internal Research Fund, MacEwan University (2014-2015). PI on 'The Ancient Oceanography of the Northwest Passage'. Value: CAD \$7,000
- Early Career Travel Award, ISTAS (Integrating spatial and temporal scales in the changing Arctic System), to participate in ART: Arctic in Rapid Transition workshop 2014 (Brest, France). Value: € 800
- MacEwan University Undergraduate Student Research Initiative, MacEwan University (2014-2015). Co-Supervisor on 'A Quantitative Analysis of PIP25 and Other Novel Biomarkers for Arctic Sea Ice Reconstruction Using Gas Chromatography- Mass Spectrometry' (student: N. Gill). Value: CAD \$3,000
- Percy Sladen Memorial Fund, The Linnean Society of London (2014-2015). PI on 'The effects of permafrost disturbance on high-latitude aquatic ecosystems'. Value: £500
- Quaternary Research Fund, QRA (Quaternary Research Association) (2014-2015). PI on 'The effects of permafrost disturbance on high-latitude aquatic ecosystems'. Value: £850
- Age Models, Chronologies, and Databases Workshop Participation & Travel Award, U.S. National Science Foundation & PAGES (2014). Value: USD \$500
- Science Communication and Public Engagement Training Award, Climate Change Consortium of Wales, Science Museum London, Imperial College Grantham Institute (2013-2014), for training in science communication and public engagement at Science Museum London. Value: £500
- Young Scientist's Travel Award, European Geosciences Union (EGU) to participate in EGU General Assembly 2013, Vienna, Austria. Value: €500
- Consortium Grant, NERC (Natural Environment Research Council UK) (2012-2017). Co-I on 'BRITICE-CHRONO: Constraining rates and style of marine-influenced ice sheet decay' (PI: Chris. D. Clarke) Value: £3,700,000.
- Marie Curie Career Integration Grant, European Union (2012-2015). PI on 'The Quaternary environmental evolution of the Northwest-Passage (QUEEN)'. Value: €75,000

5. List of membership in international or national organizations and scientific societies, together with information on the functions performed.

- 2025-present Steering Committee member ArcPac (Arctic Research Community - Past Changes for future)
- 2019-present Steering Committee Member ACME (Arctic Cryosphere Change and Coastal Marine Ecosystems) Working Group, PAGES (Past Global Changes)
- 2018-present Steering Committee Member, SvalHolIA (Svalbard Holocene Assembly)

6. List of internships at scientific or artistic institutions, including foreign ones, with specifying the place, date, duration of the internship and its nature.

After obtaining doctoral degree:

2023 (May) Pisa University, Italy (funded by Erasmus+) – lab training; 1 week

2022 (May-Jun) Plymouth University, UK (funded by Research Excellence Initiative (Id-UB) at Adam Mickiewicz University) – lab work; 3 weeks

2020 (Oct) Plymouth University, UK (funded by Nansen Legacy Project) - lab work; 4 weeks

2019 (May) Plymouth University, UK (funded by Nansen Legacy Project) - lab work; 4 weeks

2017 (May-Jun) Bangor University, UK & University of Exeter, UK (funded by ACU Fellowship) – research and lab training; 5 weeks

2016 (Jun) Alfred Wegener Institute for Polar Research, Bremerhaven, Germany (funded by NSERC Discovery Grant) – lab training; 1 week

(May) UNIS (University Centre of Svalbard), Longyearbyen, Norway – research visit; 1 week

(Jan-Jul) Arctic University of Tromsø, Tromsø, Norway – research visit (sabbatical); 6 months

2014 (Feb) Geological Survey of Canada Atlantic, Dartmouth, Nova Scotia (funded by Marie Curie Career Integration Grant) – research visit; 2 weeks

2013 (Feb) Geological Survey of Canada Atlantic, Dartmouth, Nova Scotia (funded by Marie Curie Career Integration Grant) – research visit; 2 weeks

2012 (Jul) Geological Survey of Canada Atlantic, Dartmouth, Nova Scotia (funded by Marie Curie Career Integration Grant) – research visit; 2 weeks

(Feb) Geological Survey of Canada Atlantic, Dartmouth, Nova Scotia (funded by ArcticNet) - – research visit; 2 weeks

Before obtaining doctoral degree:

2010 (Mar-Apr) Geological Survey of Canada Atlantic, Dartmouth, Nova Scotia (funded by ArcticNet) – research visit; 3 weeks

2008 (May) Dept. of Geography, Queen's University, Kingston, Ontario (funded by NSERC Northern Chair) – research visit; 2 weeks

(Apr) Geological Survey of Canada Atlantic, Dartmouth, Nova Scotia (funded by NSERC Northern Chair) – research visit; 3 weeks

2007 (Feb-Mar) School of Ocean Sciences, University of Wales (Bangor) (funded by NSERC Northern Chair) – research visit; 2 weeks

(Jan-Feb) ECOLMAS European Graduate College in Marine Sciences, Universität Bremen, Bremen, Germany (funded by Graduate Scholarship in Geology) – lab training; 1 week

(Jan-May) EPOC (Environnements et Paléoenvironnements OCéaniques Laboratory), Université Bordeaux-1, Talence-Cedex, France (funded by Research Abroad Travel Grant) – research visit; 5 months

2006 (Dec) Department of Geography, Queen’s University, Kingston, Ontario (funded by NSERC Northern Chair) – research visit; 2 weeks

(Jul-Aug) Department of Geography, University of Liverpool, U.K. (funded by J. Gordin Kaplan Award and Circumpolar/Boreal Alberta Research Grant Award) – research visit; 5 weeks

(Jun) Geological Survey of Canada Atlantic, Dartmouth, Nova Scotia (funded by NSERC Northern Chair) – research visit; 2 weeks

2005 (Oct) Charlevoix, Québec. Annual Meeting of NSERC Northern Research Chairs (funded by NSERC Northern Chair) – research visit; 1 week

2004 (Nov) Montréal, Québec. CASES/ArcticNet Meeting (funded by NSERC Northern Chair) – research visit; 1 week

(May) Geological Survey of Canada Atlantic, Dartmouth, Nova Scotia (funded by NSERC Northern Chair) – research visit; 2 weeks

(May) Department of Geography, Queen’s University, Kingston, Ontario (funded by NSERC Northern Chair) – research visit; 1 week

7. List of membership in editorial committees and scientific councils of journals, along with information on the functions performed (e.g. editor-in-chief, chairman of the scientific council, etc.).

All after doctoral degree

- 2021-2022 Guest editor, Sea ice in the polar regions. 2022. Past Global Changes Magazine 30(2); <https://doi.org/10.22498/pages.30.2> (co-editor)
- 2024- present Editorial Board, Marine Micropaleontology (Elsevier)

8. List of peer-reviewed scientific or artistic works, particularly those published in international journals.

After obtaining doctoral degree [*indicates supervised students]:

Bird, C., Darling, K., Thiessen, R.*, Pieńkowski, A.J. 2025. The 16S rDNA microbiome of the Arctic foraminifera *Neogloboquadrina pachyderma* is comprised of hydrocarbon-degrading bacteria and a diatom chloroplast store. Biogeosciences 22, 4545–4577, <https://doi.org/10.5194/bg-22-4545-2025>

Pieńkowski, A.J., Szczuciński, W., Byszka, A., Chyleński, M., Juras, A., Romel, P.*, Rozwałak, P.*, Trzebny, A., Dabert, M., Belt, S.T., Jagodziński, R., Smik, L., Włodarski, W. 2024. Sedimentary ancient DNA and HBI biomarkers as sea-ice indicators: A complementary approach in Antarctic fjord environments. Limnology & Oceanography Letters; <https://doi.org/10.1002/lol2.10395>

Pieńkowski, A.J., Coulthard, R.D., Furze, M.F.A. 2023. Revised marine reservoir offset (ΔR) values for molluscs and marine mammals from Arctic North America. *Boreas* 52, 145-167; <https://doi.org/10.1111/bor.12606>

Pieńkowski, A.J., Husum, K., Furze, M.F.A., Missana, A.F.J.M., Iralı, N., Divine, D.V., Trælvik Eilertsen, V. 2022. Revised ΔR values for the Barents Sea and its archipelagos as a pre-requisite for accurate and robust marine-based ^{14}C chronologies. *Quaternary Geochronology* 68, 101244; <https://doi.org/10.1016/j.quageo.2021.101244>

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Before obtaining doctoral degree:

Pieńkowski, A.J., Mudie, P.J., England, J.H., Smith, J.N., Furze, M.F.A. 2011. Late Holocene conditions in Coronation Gulf, Canadian Arctic Archipelago: evidence from dinoflagellate cysts, other non-pollen palynomorphs, and pollen. *Journal of Quaternary Science* 26, 839-853; <https://doi.org/10.1002/jqs.1503>

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9. List of participation in European or other international programs.

Not applicable

10. List of participation in research teams implementing projects other than those specified in point II.4.

Not applicable

11. List of participation in teams assessing applications for research funding, applications for granting scientific awards, applications in other competitions having a scientific or didactic nature.

- Reviewer, Swiss National Science Foundation applications, 2023-present;
- Reviewer, National Science Centre Poland OPUS applications, 2020

III. COOPERATION WITH THE SOCIAL AND ECONOMIC ENVIRONMENT

1. List of technological achievements.

Not applicable

2. Cooperation with the economic sector.

Not applicable

3. List of obtained industrial property rights, including obtained national or international patents.

Not applicable

4. List of implemented technologies.

Not applicable

5. List of performed expert opinions or other studies made to order for public institutions or entrepreneurs.

Not applicable

6. List of participation in expert or competition teams.

Not applicable

7. List of artistic projects implemented with non-artistic environments.

Not applicable

IV. SCIENTOMETRIC DATA**1. Impact Factor (in fields and disciplines where this parameter is commonly used as a scientometric indicator).**

My peer-reviewed publications include articles published in journals indexed in Journal Citation Reports with assigned Impact Factors, including Marine Geology, Quaternary Science Reviews, Boreas, Communications Earth & Environment, Limnology & Oceanography Letters, Marine Micropaleontology, and Scientific Reports. The Impact Factors of these journals reflect their international standing within the Earth and environmental sciences.

2. Number of citations of the applicant's publications, with separate consideration of self-citations.

According to Scopus (as of 29 January 2026), my publications have received 748 citations, including 250 self-citations.

3. Hirsch index.

According to Scopus (as of 29 January 2026), my h-index is 17.

The information contained in point IV should also indicate the database on the basis of which it was provided.

When selecting this database, attention should be paid to the specificity of the field and scientific discipline in which the candidate is applying for the degree of habilitated doctor. The Council for Scientific Excellence informs that providing scientometric data - in the opinion of the Council for Scientific Excellence - is advisable and recommended, it also results from the practice commonly used by candidates themselves applying for scientific promotion.

It should be emphasized, however, that scientometric data provided in applications for initiating the promotion procedure may not constitute a criterion for assessing the Candidate's scientific achievements for entities granting doctorates, habilitations and the Council for Scientific Excellence itself, bodies conducting proceedings for the award of a degree or title.

The task of these bodies is primarily the expert evaluation of the scientific achievements of the Candidate applying for scientific promotion, and the decision to award a degree or title should not be dependent on the provision of this data.



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(applicant's signature)