

Curriculum vitae

Personal information

Family name, first name: Arndt, Stefanie
Date of birth: 30.10.1988
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Contact address

Current organization/ institute/ university name and address: Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Klußmannstraße 3d, D-27570 Bremerhaven, Germany
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Education

02/2017 Ph.D. in Sea Ice Physics at Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, and University of Bremen (Environmental Physics), Germany
PhD thesis: "Sea-ice surface properties and their impact on the under-ice light field from remote sensing data and in-situ measurements"
06/2013 M. Sc. Meteorology at University of Hamburg and Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany

Current position(s)

Since 06/2019 Postdoctoral Researcher
Sea Ice Physics/Climate Sciences, Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany
Own project within the priority program SPP1158 of the DFG, Project title: 'Snow contrasts controlling the fate of sea ice' (SnowCast)
Since 10/2019 Lecturer
Sea Ice Physics, University of Hamburg, Hamburg, Germany

Previous positions

01/2017 – 05/2019 Postdoctoral Researcher
Sea Ice Physics/Climate Sciences, Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany
Responsibilities: Coordination and implementation of ship- and land-based sea ice field work in the Southern Ocean
02/2016 – 04/2016 Visiting Researcher
Sea Ice Physics, Institute for Marine and Antarctic Studies, Hobart, TAS, Australia
10/2013 – 12/2016 Research Associate (PhD student)
Sea Ice Physics/Climate Sciences, Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany
09/2011 – 08/2012 Student Assistant
Ocean in the Earth System/Sea ice in the Earth system, Max Planck Institute for Meteorology, Hamburg, Germany

Fellowships and awards

07/2021-06/2024	Associate Junior Fellowship at the Institute for Applied Science (Hanse-Wissenschaftskolleg, HWK), Delmenhorst, Germany
08/2019	ASPeCt/CliC travel grant, to attend IGS, Winnipeg, Canada
12/2018 – 11/2019	Helmholtz Mentoring Program - Helmholtz Advance
06/2018	ASPeCt/CliC travel grant, to attend Polar2018, Davos, Switzerland
02/2017	ASPeCt/CliC travel grant, to attend IGS Symposium, Wellington, New Zealand
02/2016 – 04/2016	POLMAR outgoing scholarship (for research stay at IMAS, Hobart, TAS, Australia), Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany
03/2014	DAAD travel grant, to attend IGS Symposium, Hobart, TAS, Australia

Co-supervision of Bachelor/Master/PhD students

04/2021 – 10/2021	Bachelor student, University of Hamburg, Hamburg, Germany (topic: <i>Seasonal sea ice melt and growth rates along an ice floe trajectory through the Weddell Sea, Antarctica</i>)
04/2021 – 10/2021	Bachelor student, University of Hamburg, Hamburg, Germany (topic: <i>Seasonal and spatial evolution of snow depth along an ice floe trajectory through the Weddell Sea, Antarctica</i>)
08/2020 – 12/2020	Master student, University Wageningen, Wageningen, Netherlands (topic: <i>Seasonality and regional variability of sea ice and snow properties from autonomous ice-tethered platforms in the Weddell Sea, Antarctica</i>)
11/2018 – present	PhD student, Sea Ice Physics, Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany (topic: <i>The impact of light absorbing impurities on the radiative properties of snow over sea ice by field measurements and modeling</i>)
01/2018 – 08/2018	Master student, University of Bremen, Bremen, Germany (topic: <i>A first approach of snow density measurements on Antarctic sea ice with the SnowMicroPen, Version 4</i>)
01/2018 – 09/2021	PhD student, Sea Ice Physics, Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany (topic: <i>Microwave radar remote sensing of snow on sea ice</i>)
07/2016 – 01/2017	Master student, University of Hamburg, Hamburg, Germany (topic: <i>Sea ice thickness and conductivity from multi-frequency electromagnetic induction sounding in the Arctic</i>)
07/2016 – 08/2019	PhD student, Sea Ice Physics, Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany (topic: <i>Sea ice mass balance in the Arctic and Antarctic from autonomous measuring platforms</i>)
10/2015 – present	PhD student, Sea Ice Physics, Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany (topic: <i>Snow cover processes on Antarctic sea ice from autonomous measuring platforms and models</i>)

Teaching activities

Since 10/2019	Lecture on "Sea Ice Physics – Observations and Modelling" within M.Sc. 'Ocean and Climate Physics', Universität Hamburg, Hamburg, Germany. (together with Prof. Dr. Dirk Notz and Dr. Stefan Kern)
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Institutional responsibilities

05/2017 – 05/2018	Postdoc Representative, Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany
10/2013 – 11/2017	Early Career Scientists Speaker, Helmholtz Alliance 'Remote Sensing and Earth System Dynamics', Germany
05/2014 – 06/2015	DokTeam Member, Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany

Reviewing activities

Since 2022	Subject Editor for 'Sea ice' in <i>Polar Research</i>
Since 2021	Associate Editor in <i>Frontiers in Earth Science</i>
Since 2017	Reviewing activities for scientific journals, e.g., <i>Advances in Polar Science</i> , <i>Nature Climate Change</i> , <i>The Cryosphere</i> , <i>Earth and Space Science</i>

Membership of scientific societies

Since 12/2020	SOOS regional working group on Weddell Sea and Dronning Maud Land (WS-DML) - Since 08/2021: Co-chair - 12/2020 – 07/2021: Leadership member
Since 05/2017	Member, Year of Polar Prediction (YOPP), Southern Hemisphere group (YOPP-SH)
Since 12/2016	Member, Antarctic Fast Ice Network (AFIN)
Since 12/2016	Leadership member, Antarctic Sea Ice Processes and Climate (ASPeCt)
Since 07/2016	Association of Polar Early Career Scientists (APECS) - Since 06/2021: Ex-Officio APECS Germany - 06/2018 – 05/2021: Board member APECS Germany - 05/2017 – 06/2018: Board Vice-Chair APECS Germany - Founding member of APECS Germany (2016)

Major collaborations

Since 08/2019	Dr. Alexander Fraser, Fast ice properties around Antarctica, Antarctic Australia Division (AAD), University of Tasmania, Australia
Since 04/2019	Dr. Christopher Polashenski, Observations of snow properties in the Arctic, Cold Regions Research and Engineering Laboratory (CRREL), Dartmouth, US
Since 02/2019	Dr. Joshua King, Analysis of snow properties from the SnowMiroPen on sea ice, Climate Research Division, Environment and Climate Change Canada (ECCC), Toronto, Canada
Since 11/2017	International Team in Space Sciences at the International Space Science Institute (ISSI) on 'Satellite-derived estimates of Antarctic snow- and ice-thickness', Led by Dr. Petra Heil (AAD, Australia), further members, e.g., Dr. Rachel Tilling (NASA, US), Ronald Kwok (JPL, US), Dr. Ted Maksym (WHOI, US), Dr. Alexander Haumann (Princeton University, US), Dr. Linette Boisvert (NASA, US), Dr. Gunnar Spreen (University of Bremen, Germany) and Prof. Dr. Christian Haas (AWI, Germany)
Since 02/2016	Dr. Klaus Meiners, Predictability of Antarctic algal distribution from sea ice physics parameters, Antarctic Australia Division (AAD), University of Tasmania, Australia
Since 02/2016	Dr. Petra Heil, Sea ice and snow properties around Antarctica, Antarctic Australia Division (AAD), University of Tasmania, Australia

Since 02/2016	Dr. Rob Masson, Snow properties on sea ice in the Weddell Sea, Antarctic Australia Division (AAD), University of Tasmania, Australia
Since 10/2013	Dr. Sascha Willmes, Satellite remote sensing of snow on sea ice, University of Trier, Trier, Germany

Third party funding

07/2019 – 06/2022	'Snow contrasts controlling the fate of sea ice' (SnowCast), DFG SPP 1158, budget: approx. 280.000 EUR, Germany
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Expeditions and field campaigns

I spent about 2 years on international expeditions, mostly ship-based, in the Arctic and Antarctic, where I often took a leadership role. Most notably, I led the international sea ice team during the third leg of the MOSAiC expedition.

02/2022 – 03/2022 (6.5 weeks)	Northwestern Weddell Sea, Endurance22 (Cape Town – Cape Town/South Africa), SA Agulhas II, Falklands Maritime Heritage Trust
02/2021 – 04/2021 (2 months)	Eastern Weddell Sea, Antarctic, PS124 (Port Stanley – Port Stanley/ Falkland Islands), <i>RV Polarstern</i> , AWI, Germany
01/2020 – 06/2020 (5 months)	Arctic Ocean, MOSAic Leg 3 (Tromsø/Norway – Bremerhaven/Germany), <i>RV Polarstern</i> (Kapitan Dranitsyn, Maria S. Merian), AWI, Germany
04/2019 – 04/2019 (1 week)	Barrow (Fast ice), Alaska, Sea Ice Dynamics Experiment (SIDex), CRREL, US
02/2019 – 04/2019 (2 months)	Northwestern Weddell Sea, Antarctic, PS118 (Punta Arenas – Punta Arenas/Chile), <i>RV Polarstern</i> , AWI, Germany
11/2018 – 12/2018 (1 month)	Atka Bay, German overwintering station Neumayer Station III, Antarctic, AFIN2018 , AWI, Germany
01/2018 – 03/2018 (2 months)	Weddell Sea, Antarctic, PS111 (Cape Town/South Africa – Punta Arenas/Chile), <i>RV Polarstern</i> , AWI, Germany
12/2015 – 02/2016 (2.5 months)	Southeastern Weddell Sea, Antarctic, PS96 (Cape Town/South Africa – Punta Arenas/Chile), <i>RV Polarstern</i> , AWI, Germany
12/2014 – 01/2015 (2 months)	Eastern Weddell Sea, Antarctic, PS89 (Cape Town – Cape Town/South Africa), <i>RV Polarstern</i> , AWI, Germany
07/2014 – 08/2014 (1 month)	Fram Strait, Arctic Ocean, PS86 (Tromsø – Tromsø/Norway), <i>RV Polarstern</i> , AWI, Germany
06/2013 – 08/2013 (2 months)	Weddell Sea, Antarctic, ANT-29/6 (Antarctic Winter Experiment; Cape Town/South Africa – Punta Arenas/Chile), <i>RV Polarstern</i> , AWI, Germany
09/2012 – 10/2012 (2 weeks)	Fram Strait, Arctic Ocean, UNIS sea-going course (Longyearbyen – Longyearbyen, Svalbard/Norway), <i>RV Lance</i> , UNIS, Norway
11/2010 – 02/2011 (2.5 months)	Weddell Sea, Antarctic, ANT-27/2 (Cape Town/South Africa – Punta Arenas/Chile), <i>RV Polarstern</i> , AWI, Germany

Knowledge and Technology Transfer & Science Communication, Outreach

Since 2014	Extensive outreach activities for national and international websites, newspaper, television and radio; see detailed list in the appendix
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Method and/or infrastructure developments / data digitalization

2014	Parameterization of light transmittance through Arctic sea ice as a function of variable sea ice properties
2016	Retrieval of snowmelt onset dates from passive microwave satellite observations (1988 – present)
2019	Retrieval of snowmelt onset dates from radar scatterometer observations (1992 – present)

Early achievements track record

Publication metrics

Number of citable publications	24
Number of peer-reviewed publications	18
Number of citations (without self-citations)	233
Number of publications with first authorship	8
h-index	9 (WOS)/11 (GS)
m-index	1.13 (WOS)/1.38 (GS)

(2 sources at least: Web of Science (WOS), Google Scholar (GS), date of query: March 1, 2022)

Five most important scientific publications

1. **Arndt, S.**, M. Nicolaus (2014), Seasonal cycle and long-term trend of solar energy fluxes through Arctic sea ice, *The Cryosphere*, 8, 2219–2233, doi:10.5194/tc-8-2219-2014.
2. **Arndt, S.**, K. M. Meiners, R. Ricker, T. Krumpen, M. Nicolaus (2017), Influence of snow depth and surface flooding on light transmission through Antarctic pack ice, *Journal of Geophysical Research - Oceans*, 122, 2108–2119, doi:10.1002/2016JC012325.
3. **Arndt, S.**, M. Nicolaus, W. Dierking, S. Willmes (2016), Timing and regional patterns of snowmelt on Antarctic sea ice from passive microwave satellite observations, *Journal of Geophysical Research - Oceans*, 121, 5916–5930, doi:10.1002/2015JC011504.
4. Meiners, K., **S. Arndt**, S. Bestley, T. Krumpen, R. Ricker, M. Milnes, K. Newbery, U. Freier, S. Jarman, R. King, R. Proud, S. Kawaguchi, B. Meyer (2017), Antarctic pack-ice algal distribution: floe-scale spatial variability and predictability from physical parameters, *Geophysical Research Letters*, 44, 7382–7390, doi:10.1002/2017GL074346.
5. **Arndt, S.**, C. Haas (2019), Spatiotemporal variability and decadal trends of snowmelt processes on Antarctic sea ice observed by satellite scatterometers. *The Cryosphere*, 13, 1943–1958, doi:10.5194/tc-13-1943-2019.

Presentations and meetings

1. *Invited oral presentation at the Extremwetterkongress, Hamburg, Germany, 09/2021
2. Oral presentation at the 6th YOPP-SH Meeting, online, 06/2021
3. Poster presentation at the Eastern Snow Conference, online, 06/2021
4. Oral presentation at EGU General Assembly, online, 04/2021
5. Oral presentation and poster presentation at AGU Fall meeting, online, 12/2020
6. *Invited Keynote speaker at the European Polar Science Week 2020, online, 10/2020
7. Oral presentation at the SOOS Weddell Sea Dronning Maud Land Working Group Workshop, online, 10/2020
8. *Invited oral presentation at the Extremwetterkongress, Hamburg, Germany, 09/2020
9. Oral presentations and poster presentation at the SCAR Open Science Conference, online, 08/2020
10. *Invited oral presentation and poster presentation at AGU Fall meeting, San Francisco, USA, 12/2019

11. Oral presentation at the FRISP meeting, Oxford, United Kingdom, 09/2019
12. Oral presentations and poster presentations at the IGS International Symposium on Sea Ice at the Interface, Winnipeg, Canada, 08/2019
13. Oral presentation and poster presentation at the Eastern Snow Conference, Fairlee, US, 06/2019
14. Oral presentation at the NASA-ESA Snow on Sea Ice Meeting, online, 01/2019
15. Oral presentation and poster presentation at the Polar2018, Davos, Switzerland, 06/2018
16. Oral presentation at the Internationale Polartagung, Rostock, Germany, 03/2018
17. Oral presentation the AGU Fall meeting, New Orleans, USA, 12/2017
18. Oral presentation at the (AC)³ Workshop on Arctic snow and sea ice properties and interaction with the atmosphere, Bremerhaven, Germany, 11/2017
19. Oral presentation at the SOOS OASIIS Workshop, Bremerhaven, Germany, 06/2017
20. Oral presentation at the IGS International Symposium on The Cryosphere in a Changing Climate, Wellington, New Zealand, 02/2017
21. Poster presentation at the AGU Fall meeting, San Francisco, USA, 12/2016
22. Oral presentation at the SCAR Open Science Conference, Kuala Lumpur, Malaysia, 08/2016
23. Poster presentation at the EGU General Assembly, Vienna, Austria, 04/2016
24. Poster presentation at the AGU Fall meeting, San Francisco, USA, 12/2015
25. Poster presentation at the Internationale Polartagung, München, Germany, 09/2015
26. Oral presentation at the ISTAS ART Workshop on the Integrating Spatial and Temporal Scales in the changing Arctic system, Brest, France, 10/2014
27. Oral presentation and poster presentation at the IGS International Symposium on Sea Ice in a Changing Environment, Hobart/Tasmania, Australia, 03/2014

Publication list

[* work published without my PhD supervisor]

1. Nicolaus, M., et al.: Overview of the MOSAiC expedition: Snow and sea ice. *Elementa: Science of the Anthropocene* 10(1), <https://doi.org/10.1525/elementa.2021.000046>, 2022.
2. Anhaus, P., Katlein, C., Nicolaus, M., **Arndt, S.**, Jutila, A., and Haas, C.: Snow Depth Retrieval on Arctic Sea Ice Using Under-Ice Hyperspectral Radiation Measurements. *Frontiers in Earth Science*, 9, 10.3389/feart.2021.711306, 2021.
3. ***Arndt, S.**, Haas, C., Meyer, H., Peeken, I., and Krumpen, T.: Recent observations of superimposed ice and snow ice on sea ice in the northwestern Weddell Sea, *The Cryosphere*, 15, 4165–4178, <https://doi.org/10.5194/tc-15-4165-2021>, 2021.
4. ***Wagner, D. N.**, Shupe, M. D., Persson, O. G., Uttal, T., Frey, M. M., Kirchgaessner, A., Schneebeil, M., Jaggi, M., Macfarlane, A. R., Itkin, P., **Arndt, S.**, Hendricks, S., Krampe, D., Ricker, R., Regnery, J., Kolabutin, N., Shimanshuck, E., Oggier, M., Raphael, I., and Lehning, M.: Snowfall and snow accumulation processes during the MOSAiC winter and spring season, *The Cryosphere Discuss.* [preprint], <https://doi.org/10.5194/tc-2021-126>, in review, 2021.
5. Nicolaus, M., Hoppmann, M., **Arndt, S.**, Hendricks, S., Katlein, C., Nicolaus, A., Rossmann, L., Schiller, M., and Schwegmann, S.: Snow Depth and Air Temperature Seasonality on Sea Ice Derived From Snow Buoy Measurements, *Frontiers in Marine Science*, 8, 10.3389/fmars.2021.655446, 2021.

6. **Arndt, S.**, Hoppmann, M., Schmithüsen, H., Fraser, A. D., and Nicolaus, M.: Seasonal and interannual variability of landfast sea ice in Atka Bay, Weddell Sea, Antarctica, *The Cryosphere*, 14, 2775–2793, <https://doi.org/10.5194/tc-14-2775-2020>, 2020.
7. Bromwich, D. H., Werner, K., Casati, B., Powers, J. G., Gorodetskaya, I. V., Massonnet, F., Vitale, V., Heinrich, V. J., Liggett, D., **Arndt, S.**, Barja, B., Bazile, E., Carpentier, S., Carrasco, J. F., Choi, T., Choi, Y., Colwell, S. R., Cordero, R. R., Gervasi, M., Haiden, T., Hirasawa, N., Inoue, J., Jung, T., Kalesse, H., Kim, S., Lazzara, M. A., Manning, K. W., Norris, K., Park, S., Reid, P., Rigor, I., Rowe, P. M., Schmithüsen, H., Seifert, P., Sun, Q., Uttal, T., Zannoni, M., and Zou, X.: The Year of Polar Prediction in the Southern Hemisphere (YOPP-SH). *Bulletin of the American Meteorological Society* 101, 10, E1653–E1676, <https://doi.org/10.1175/BAMS-D-19-0255.1>, 2020.
8. Katlein, C., Mohrholz, V., Sheikin, I., Itkin, P., Divine, D. V., Stroeve, J., Jutila, A., Krampe, D., Shimanchuk, E., Raphael, I., Rabe, B., Kuznetov, I., Mallet, M., Liu, H., Hoppmann, M., Fang, Y.-C., Dumitrascu, A., **Arndt, S.**, Anhaus, P., Nicolaus, M., Matero, I., Oggier, M., Eicken, H., and Haas, C.: Platelet Ice under Arctic Pack Ice in Winter, *Geophysical Research Letters*, 47, e2020GL088898, <https://doi.org/10.1029/2020GL088898>, 2020.
9. *Castellani, G., Schaafsma, F. L., **Arndt, S.**, Lange, B. A., Peeken, I., Ehrlich, J., David, C., Ricker, R., Krumpen, T., and Hendricks, S.: Large-Scale Variability of Physical and Biological Sea-Ice Properties in Polar Oceans, *Frontiers in Marine Science*, 7, 10.3389/fmars.2020.00536, 2020.
10. Katlein, C., **Arndt, S.**, Belter, H. J., Castellani, G., and Nicolaus, M.: Seasonal evolution of light transmission distributions through Arctic sea ice, *Journal of Geophysical Research: Oceans*, 124, 5418–5435, 2019.
11. *Massicotte, P., Peeken, I., Katlein, C., Flores, H., Huot, Y., Castellani, G., **Arndt, S.**, Lange, B. A., Tremblay, J. É., and Babin, M.: Sensitivity of phytoplankton primary production estimates to available irradiance under heterogeneous sea ice conditions, *Journal of Geophysical Research: Oceans*, 124, 5436–5450, 2019.
12. ***Arndt, S.** and Haas, C.: Spatiotemporal variability and decadal trends of snowmelt processes on Antarctic sea ice observed by satellite scatterometers, *The Cryosphere*, 13, 1943–1958, <https://doi.org/10.5194/tc-13-1943-2019>, 2019.
13. ***Arndt, S.**, and Paul, S.: Variability of winter snow properties on different spatial scales in the Weddell Sea, *Journal of Geophysical Research: Oceans*, 123, 8862–8876, <https://doi.org/10.1029/2018JC014447>, 2018.
14. *Meiners, K., **Arndt, S.**, Bestley, S., Krumpen, T., Ricker, R., Milnes, M., Newbery, K., Freier, U., Jarman, S., and King, R.: Antarctic pack ice algal distribution: Floe-scale spatial variability and predictability from physical parameters, *Geophysical Research Letters*, 44, 7382–7390, [doi:10.1002/2017GL074346](https://doi.org/10.1002/2017GL074346), 2017.
15. **Arndt, S.**, Meiners, K. M., Ricker, R., Krumpen, T., Katlein, C., and Nicolaus, M.: Influence of snow depth and surface flooding on light transmission through Antarctic pack ice, *Journal of Geophysical Research: Oceans*, 122, 2108–2119, [10.1002/2016JC012325](https://doi.org/10.1002/2016JC012325), 2017.
16. **Arndt, S.**, Willmes, S., Dierking, W., and Nicolaus, M.: Timing and regional patterns of snowmelt on Antarctic sea ice from passive microwave satellite observations, *Journal of Geophysical Research - Oceans*, 121, 5916–5930, [10.1002/2015JC011504](https://doi.org/10.1002/2015JC011504), 2016.

17. Katlein, C., **Arndt, S.**, Nicolaus, M., Perovich, D. K., Jakuba, M. V., Suman, S., Elliott, S., Whitcomb, L. L., McFarland, C. J., Gerdes, R., Boetius, A., and German, C. R.: Influence of ice thickness and surface properties on light transmission through Arctic sea ice, *Journal of Geophysical Research-Oceans*, 120, 5932–5944, 10.1002/2015jc010914, 2015.
18. **Arndt, S.** and Nicolaus, M.: Seasonal cycle and long-term trend of solar energy fluxes through Arctic sea ice, *The Cryosphere*, 8, 2219–2233, <https://doi.org/10.5194/tc-8-2219-2014>, 2014.

Appendix: Outreach

Press conferences

- 06/2021 MOSAiC press conference at the Bundespressekonferenz, "Ein Jahr im Eis - Erste Erkenntnisse der Expedition MOSAiC" together with Anja Karliczek and Markus Rex, Berlin, Germany (Jun 15, 2021).
- 12/2019 MOSAiC press conference at AGU, "A Year on the Ice: MOSAiC at three months" together with Melinda Webster, Sally McFarlane, Matthew Shupe, and Markus Rex, San Francisco, US (Dec 10, 2019).
- 09/2019 MOSAiC press talk at BMBF, Pressegespräch "MOSAiC-Expedition" together with Anja Karliczek and Markus Rex, Berlin, Germany (Sep 11, 2019).

Television

- 11/2021 arte, "42 - die Antwort auf fast alles: Was wenn es kein Eis mehr gäbe?" (Nov 06, 2021).
- 06/2021 Numerous television interviews in the frame of the MOSAiC press conference in the Bundespressekonferenz, e.g., ORF and Deutsche Welle.
- 05/2021 ZDF, "TerraX: Supercodes - Die geheimen Formeln der Natur. Folge 1: Bauplan der Erde" (May 02, 2021).
- 02/2021 SWR, "Planet Wissen: Schmelzendes Eis - Antarktis im Klimawandel" (Feb 12, 2021).
- 01/2021 NDR, "Hallo Niedersachsen: Auf zum Südpol - Stefanie Arndt bereitet Expedition vor" (Jan 12, 2021).
- 11/2020 ARD, "Hier spricht Berlin" (Nov 10, 2020).
- 11/2020 ARD/ NDR/ rbb, Contributions to "ARD Themenwoche 2020 #Wieleben" in frame of MOSAiC and UFA production "Expedition Arktis" and side documentaries.
- 10/2020 ZDF, "heute up.date" (in the frame of MOSAiC "Welcome back"; Oct 12, 2020).
- 07/2020 NDR, "Hallo Niedersachsen: Spitzenforschung: MOSAiC-Expedition in der Arktis" (Jul 15, 2020).
- 09/2019 ARD, "Tagesthemen" (in the frame of MOSAiC Farewell; Sep 19, 2019).
- 01/2019 ProSieben, "Galileo: Zu Besuch auf der Neumayer-Station in der Antarktis" (Jan 23, 2019).

Radio and Podcasts

- 07/2021 Podcast "Eric erforscht", "Mit dem Forschungsschiff in die Arktis." (Sep 23, 2021).
<https://ericerforscht.libsyn.com/>
- 07/2021 WDR5, "Quarks - Wissenschaft und mehr: Meeresforschung in eisiger Kälte" (Jul 05, 2021).
- 06/2021 Numerous radio interviews in the frame of the MOSAiC press conference in the Bundespressekonferenz, e.g., The World, BB radio local/global, DLF Kultur, Hessischer Rundfunk, and radioeins.
- 05/2021 Radio COSMO, (May 24, 2021).
- 05/2021 Deutschlandfunk Nova, "Update" (May 19, 2021).
- 04/2021 Bremen Vier, "Zebra 4 forscht" (Apr 18, 2021).
- 01/2021 Bremen Vier, "Zebra 4 forscht" (Jan 17, 2021).
Deutschlandfunk Nova, "Winter-Know-how: Besser keinen Schnee essen" (Jan 12, 2021).
- 12/2020 PodCast "The IcePod", Episode Eight - Snowflakes, Pee Bottles and a Mosaic of Floes (Dec 03, 2020).
<https://lnns.co/xkrgAuwFXj9>
- 10/2020 Bremen Vier, "Zebra 4 forscht" (Oct 18, 2020).
- 10/2020 Numerous radio interviews in the frame of MOSAiC "Welcome back", e.g., radioeins, NDRinfo, NDR90.3, DLF, OE1, and Bayern3.
PodCast "Zeit online: Was jetzt?", "Ein Jahr im sterbenden Eis".
<https://www.zeit.de/politik/2020-10/polarstern-expedition-arktisk-nachrichtenpodcast>
- 08/2020 rbb inforadio, "Wissenswertes: Im Eis - die Expedition MOSAiC" (Aug 16, 2020).
- 09/2020 swr aktuell, "Arktischer Schnee im Klimawandel" (Sep 24, 2020).
- 06/2020 radioeins, "Wissenswertes: Von der Arktis in die Pandemie" (Jun 17, 2020).

- 09/2019 Numerous radio interviews in the frame of "MOSAiC Farewell", e.g. for NDR aktuell and BBC radio.
- 12/2019 radioeins, "Die Profis: Schichtwechsel in der Arktis" (Dec 21, 2019).
PodCast "The IcePod", Bonus Episode One - Stefanie Arndt (Dec 19, 2019).
https://lnns.co/oMV2B_gfrUK
- 12/2018 rbb Kultradio, Radio programme "Zeitpunkte: Frauen in der Polarforschung" (Dec 23, 2018).
[Newspapers and magazines](#)
- 01/2022 Stader Tageblatt, "Das "deutsche Fräulein Smilla" hat nicht nur ein Gespür für Eis" (Jan 06, 2022).
- 12/2021 Bild der Frau, "Weil jede Flocke eine Geschichte erzählt" (Dec 23, 2021).
- 12/2021 Frankfurter Rundschau, "Das Gespür für Schnee" (Dec 19, 2021).
- 12/2021 Tierfreund (Kindermagazin), "Expedition ins Eis" (Dec, 2021).
- 10/2021 Nordsee-Zeitung, "Die Schnee-Expertin des AWI" (Oct 27, 2021).
- 06/2021 Numerous contributions in the frame of the MOSAiC press conference in the Bundespressekonzferenz, e.g., Nordsee-Zeitung, Weserkurier, and Der Standard.
- 01/2021 Benni (Kindermagazin), "Eine Reise ins Eis" (Jan, 2021).
- 11/2020 Nordsee-Zeitung, "Nach der Arktis ist vor der Antarktis" (Nov 12, 2020).
- 10/2020 Numerous contributions in the frame of MOSAiC "Welcome back", for, e.g., Nordsee-Zeitung and Märkische Allgemeine.
- 09/2019 Numerous contributions in the frame of MOSAiC Farewell, e.g., Tagesspiegel and Südkurier.
[Book contributions](#)
- 07/2020 "Klima im Wandel. Was wir jetzt tun können", Arena Bibliothek des Wissens (Jul 21, 2020).
[Online article](#)
- 07/2021 watson.ch: "Klimawandel: Expertin sagt, wann die Arktis eisfrei sein wird".
https://www.watson.ch/!695319900?utm_source=mail&utm_medium=social-user&utm_campaign=watson-site-web
- 12/2020 National Geographic, online: "Darf man Schnee essen?".
<https://www.nationalgeographic.de/umwelt/2020/12/darf-man-schnee-essen>
meereisportal.de: "Back to the Southern Ocean: taking a closer look at the complex climate system in the eastern Weddell Sea".
<https://www.meereisportal.de/en/archive/2020-kurzmeldungen-gesamttexte/back-to-the-southern-ocean/>
- 10/2020 bremen.de: "Wissenschaft persönlich".
<https://www.bremen.de/wissenschaft/wissenschaft-persoenlich/wissenschaft-persoenlich-stefanie-arndt>
meereisportal.de: "DriftStories - 08: The many faces of cold".
<https://www.meereisportal.de/en/mosaic/driftstories/driftstories-08-the-many-faces-of-cold>
- 08/2020 meereisportal.de: "DriftStories - 07: The importance of the first snowball".
<https://www.meereisportal.de/en/mosaic/driftstories/driftstories-07-the-importance-of-the-first-snowball>
- 07/2020 meereisportal.de: "DriftStories - 06: Snow, the great unknown".
<https://www.meereisportal.de/en/mosaic/driftstories/driftstories-06-snow-the-great-unknown>
- 01/2020 meereisportal.de: "After two-and-a-half years, the adopt-a-buoy project draws to a close".
<https://www.meereisportal.de/en/archive/2020-kurzmeldungen-gesamttexte/after-two-and-a-half-years-the-adopt-a-buoy-project-draws-to-a-close>
meereisportal.de: "AWI's Antarctic fast-ice monitoring programme in Atka Bay celebrates 10-year anniversary".
<https://www.meereisportal.de/en/archive/2020-kurzmeldungen-gesamttexte/awis-antarctic-fast-ice-monitoring-programme-in-atka-bay-celebrates-10-year-anniversary>
- 08/2019 meereisportal.de: "The Voyage of 2016P28 - A measuring buoy circumnavigates the Antarctic in the course of more than three years".
<https://www.meereisportal.de/en/archive/2019-kurzmeldungen-gesamttexte/the-voyage-of-2016p28>
- 01/2019 meereisportal.de: "Sea-ice extent in the Southern Ocean now approaching its summer minimum - what lessons we can learn from the latest RV Polarstern expeditions to the Weddell Sea".
<https://www.meereisportal.de/en/archive/2019-kurzmeldungen-gesamttexte/sea-ice-extent-in-the-southern-ocean-now-approaching-its-summer-minimum/>

BMBF website: "One step ahead of the melting ice".

<https://www.bmbf.de/de/der-eisschmelze-einen-schritt-voraus-7678.html>

meereisportal.de: "The AWI's Antarctic fast-ice research programme at the overwintering station Neumayer III in Atka Bay".

<https://www.meereisportal.de/en/archive/2019-kurzmeldungen-gesamttexte/the-awis-antarctic-fast-ice-research-programme-at-the-overwintering-station-neumayer-iii-in-atka-bay/#c17337>

03/2018 meereisportal.de: "Sea-ice concentration in the Antarctic reaches its minimum".

<https://www.meereisportal.de/en/archive/2018-news-english/sea-ice-concentration-antarctic-march2018/#c14958>

01/2018 meereisportal.de: "Buoy adoption project enters the hot stage".

<https://www.meereisportal.de/archiv/2018-kurzmeldungen-gesamttexte/bojenpatenschaft-geht-in-die-heisse-phase/>

Projects

04/2017 – 04/2019 Children project "Adopt a buoy", Germany.

Public talks and others

11/2021 Futurium, Berlin, Germany.

Public discussion round in the context of the exhibition opening "Mobility" in the Futurium (Nov 09, 2021)

Falling Walls Summit, Berlin, Germany.

Talk together with Markus Rex on the MOSAiC expedition (Nov 09, 2021)

Klimaakademie at the Hochschule Bremerhaven, Bremerhaven, Germany.

Talk on sea ice research in Antarctica (Oct 16, 2021)

08/2021 Thementag UN-Dekade Meere & Ozeane, Bremen, Germany.

Talk in the frame of "Improtheater trifft auf Wissenschaft" (Aug 14, 2021)

07/2021 Wolke8 exhibition: *Das Klima und wir*, Technische Sammlung, Dresden.

Interview contribution to part of the exhibition.

since 01/2021 Public and in-house lectures, *Several public and in-house lectures on climate change in the polar regions.*

10/2020 Helmholtz Forschungscafe and Science Lunch.

Scientific exchange with members of the German Bundestag on the MOSAiC expedition (Oct 21/26, 2020).

MOSAiC Day, Futurium, Berlin, Germany.

Panel dialog and discussion rounds with family (Oct 23, 2020).

09/2020 Film festival, *Film ohne Grenzen*.

talk interview with Jörg Thadeusz on documentary "Expedition Arktis" (Sep 19, 2020)

Klimawoche, Hamburg, Germany.

Several talks within the framework of the Klimawoche 2020, e.g. at the Extremwetterkongress 2020 (Sep 23/24, 2020)

02–06/2020 MOSAiC media coordination on board Polarstern during Leg 3.

12/2019 MOSAiC media and outreach at AGU, San Francisco, US.

Presentation at "Research in Germany" booth.

09/2019 Panel discussion, Futurium, Berlin, Germany.

Panel discussion with German Minister of Education Anja Karliczek and astronaut Alexander Gerst at the opening ceremony of the Futurium, Berlin, Germany (Sep 05, 2019).

since 05/2014 General outreach activities, *in German schools and universities.*