

CURRICULUM VITAE

Lorenzo Zampieri, M.Sc.

Personal

Born on September 1, 1992 in Venezia, Italy.

Contact

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Education

- 11/2015 – 09/2017** M.Sc. Environmental Physics (Title: Verification of seasonal and subseasonal sea ice forecasts), Supervisor: Prof. Dr. Thomas Jung, Faculty of Physics and Electrical Engineering, University of Bremen, Germany.
- 10/2011 – 07/2015** B.Sc. Physics (Title: Feasibility study of graphite-based unidirectional diagnostic calorimeter), Supervisor: Dr. Gianluigi Serianni, Department of Physics and Astronomy, University of Padova, Italy
- 09/2006 – 07/2011** Scientific High School, Liceo Scientifico G. Bruno, Venezia, Italy.

Employment

- 11/2017 – Present** PhD Candidate, Supervisor: Prof. Dr. Thomas Jung, Young Investigator Group “Seamless Sea Ice Prediction” Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Germany.
- 11/2015 – 09/2017** Research Assistant, seaiceportal.de and ArcTrain Projects, Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Germany.
- 02/2015 – 07/2015** Intern, RFX Consortium for Plasma Physics and Nuclear Fusion, Supervisor: Dr. Gianluigi Serianni, Padova, Italy.

Awards and Acknowledgments

- POLMAR short-term Research Grant, 2019: Full funding for a 3 months research stay at ECMWF, January 5 to April 4, 2020 (Reading, United Kingdom).
- IGS Travel Stipend, 2019: Partial funding for the participation to the 2019 IGS Sea Ice Symposium, August 19-23, 2019 (Winnipeg, Canada).
- FAMOS 2018 Travel Stipend, 2018: Full funding for the participation to 2018 FAMOS Annual School and Meeting, October 23-26, 2018 (Bergen, Norway).

POLAR 2018 Travel Stipend, 2018: Partial funding for the participation to Polar 2018, June 19-23, 2018 (Davos, Switzerland).

FAMOS 2017 Travel Stipend, 2017: Full funding for the participation to 2017 FAMOS Annual School and Meeting, October 24-27, 2017 (Woods Hole Oceanographic Institution, USA).

BMBF Deutschlandstipendium Scholarship, 2016 – 2017: University of Bremen, Germany.

Regional Merit Scholarship, 2011: University of Padova, Italy.

Teaching Experience

08/2019 – 09/2019 Bachelor student supervision.

10/2018 – 02/2019 Exercise preparation for *Dynamics I*, Postgraduate Programme in Environmental Physics, University of Bremen.

10/2017 – 02/2018 Tutor for *Dynamics I*, Postgraduate Programme in Environmental Physics, University of Bremen.

09/2009 – 06/2015 Tutor in Mathematics and Physics for high School Students, Venezia, Italy.

Conference Items (1st author only)

Talk “*Can a sea ice targeted geoengineering strategy counteract global warming?*”, AWI Science Meeting, November 15, 2019, (Bremerhaven, Germany).

Talk “*Subseasonal sea ice predictions at both poles*”, IGS Sea Ice Symposium, August 19-23, 2019, (Winnipeg, Canada).

Poster “*Skillful subseasonal sea ice edge prediction at both poles*”, 9th IICWG International Workshop on Sea Ice Modelling, Data Assimilation and Verification, June 17-19, 2019, (Bremen, Germany).

Talk “*Sea ice targeted geoengineering can delay Arctic sea ice decline but not global warming*”, EGU General Assembly 2019, April 7-12, 2019, (Vienna, Austria).

Invited talk “*Prospects for subseasonal sea ice prediction at both poles*”, Workshop on predictability, dynamics and applications research using the TIGGE and S2S ensembles, April 2-5, 2019, (Reading, UK).

Poster “*Prospects for subseasonal sea ice prediction at both poles*”, YOPP Arctic Science Workshop, January 14-16, 2019, (Helsinki, Finland).

Poster “*Arctic sea ice geoengineering simulated with the AWI Climate Model*”, 2018 FAMOS Annual School and Meeting, October 23-26, 2018, (Bergen, Norway).

Talk “*Predictive skills evaluation of subseasonal to seasonal Arctic sea ice forecasts*”, POLAR 2018, June 19-23, 2018, (Davos, Switzerland).

Talk “*Seamless prediction systems prove potential for skillful Arctic sea-ice forecasts far beyond weather time scales*”, Polar Prediction Workshop 2018, May 7-9, 2018, (Montréal, Canada).

Poster “*Prediction of Arctic sea ice on subseasonal to seasonal timescales*”, AWI Evaluation, March 19-22, 2018, (Bremerhaven, Germany).

Talk “*Verification of subseasonal to seasonal sea-ice forecasts*”, 8th IICWG International Workshop on Sea Ice Modelling, Data Assimilation and Verification, November 1-3, 2017, (Bergen, Norway).

- Poster “*Verification of subseasonal to seasonal sea-ice forecasts*”, 2017 FAMOS Annual School and Meeting, October 24-27, 2017 (Woods Hole Oceanographic Institution, USA).
- Poster “*Verification of subseasonal to seasonal sea-ice forecasts*”, Workshop on improved satellite retrievals of sea-ice concentration and sea-ice thickness for climate applications, October 9-11, 2017 (Hamburg, Germany).
- Talk “*Prediction of Arctic sea ice on subseasonal to seasonal time scales*”, ECMWF Seminar, September 15, 2017, (Reading, UK).
- Talk “*Verification of sea ice forecasts for the subseasonal and seasonal timescale*”, IUP-AWI Blockseminar, July 4, 2017, (Bremerhaven, Germany).
- Poster “*Verification of subseasonal to seasonal sea-ice forecasts*”, Polar Prediction Workshop 2017, March 27-30, 2017 (Bremerhaven, Germany).

Publications

ORCID: <https://orcid.org/0000-0003-1703-4162>

Google Scholar: <https://scholar.google.it/citations?user=W-MD1Q0AAAAJ&hl=it>

Research Gate: https://www.researchgate.net/profile/Lorenzo_Zampieri2

Peer Reviewed:

- Zampieri, L.** & Goessling, H. F., (2019). Sea ice targeted geoengineering can delay Arctic sea ice decline but not global warming. *Earth's Future* (in press). DOI: 10.1029/2019EF001230
- Zampieri, L.**, Goessling, H. F., & Jung, T. (2019). Predictability of Antarctic sea ice edge on subseasonal time scales. *Geophysical Research Letters*, 46, 9719–9727. DOI: 10.1029/2019GL084096
- Hutter, N., **Zampieri, L.**, & Losch, M. (2019). Leads and ridges in Arctic sea ice from RGPS data and a new tracking algorithm, *The Cryosphere*, 13, 627–645. DOI: 10.5194/tc-13-627-2019
- Zampieri, L.**, Goessling, H. F., & Jung, T. (2018). Bright prospects for Arctic sea ice prediction on subseasonal time scales. *Geophysical Research Letters*, 45, 9731–9738. DOI: 10.1029/2018GL079394
- Peruzzo, S., Cervaro, V., Dalla Palma, M., Delogu, R., De Muri, M., Fasolo, D., Franchin, L., Pasqualotto, R., Pimazzoni, A., Rizzolo, A., Tollin, M., **Zampieri, L.**, & Serianni, G. (2016). Castellated tiles as the beam-facing components for the diagnostic calorimeter of the negative ion source SPIDER. *Review of Scientific Instruments*, 87(2), 02B925. DOI: 10.1063/1.4934848.

Thesis:

- L. Zampieri, 2017: Verification of Seasonal and Sub-seasonal Sea Ice Forecasts, Master Thesis, University of Bremen.
- L. Zampieri, 2015: Feasibility study of graphite-based unidirectional diagnostic calorimeter, Bachelor Thesis, University of Padova.

Data:

Zampieri, L. & Goessling, H. F., (2019). Sea ice targeted geoengineering simulation with the AWI Climate Model. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, *PANGAEA*, DOI: 10.1594/PANGAEA.906077

Hutter, N., **Zampieri, L.**, & Losch, M., (2019). Linear Kinematic Features (leads & pressure ridges) detected and tracked in RADARSAT Geophysical Processor System (RGPS) sea-ice deformation data from 1997 to 2008. Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research, Bremerhaven, *PANGAEA*, DOI: 10.1594/PANGAEA.898114

Bremen, October 17, 2019

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