

# Anna Lina Petruseviciute SJUR

## PhD candidate

Oslo, Norway +47 90 23 35 81 [alsjur@runbox.com](mailto:alsjur@runbox.com) [github.com/alpsjur](https://github.com/alpsjur) [psjur.no](https://psjur.no)



PhD student in Physical Oceanography with a background in physics and a fascination for mathematics and statistical learning methods. Expertise in numerical modeling, data analysis and theoretical investigation. Experienced in teaching and presenting research.

## Education

September 2021 present	<b>PhD in Physical Oceanography, UNIVERSITY OF OSLO</b> <ul style="list-style-type: none"><li>Thesis on large-scale Arctic Ocean circulation, with a focus on flow-topography interactions.</li></ul>
August 2019 August 2021	<b>Master's Degree in Geosciences   Meteorology and Oceanography, UNIVERSITY OF OSLO</b> <ul style="list-style-type: none"><li>Thesis with a scope of 60 ECTS. Investigated dynamics of ocean flow over a canyon, with a focus on theory development and numerical modeling.</li></ul>
August 2018 June 2019	<b>Single Courses, UNIVERSITY OF OSLO</b> <ul style="list-style-type: none"><li>Completed courses in computational physics, mathematical analysis, and literature.</li></ul>
August 2015 June 2018	<b>Bachelor's Degree in Physics, Astronomy and Meteorology, UNIVERSITY OF OSLO</b> <ul style="list-style-type: none"><li>Specialized in Meteorology and Oceanography. Extended coursework beyond the standard curriculum, including statistics and mathematics.</li><li>Exchange semester at <b>The University Centre in Svalbard (UNIS)</b>.</li></ul>
August 2014 May 2015	<b>Lithuanian Studies, VILNIUS UNIVERSITY</b> <ul style="list-style-type: none"><li>Completed coursework on lithuanian language and history.</li></ul>

## Experience

September 2021 present	<b>PhD Candidate – Department of Geosciences, UNIVERSITY OF OSLO</b> <ul style="list-style-type: none"><li>Applied theory development to analyze large geophysical datasets.</li><li>Designed and executed numerical simulations of fluid dynamics.</li><li>Developed and maintained reproducible workflows (Python, Julia, Git, HPC).</li><li>Authored and co-authored peer-reviewed articles.</li><li>Research visit at <b>Stockholm University</b>, Sweden, for 2 months.</li></ul>
August 2016 Present	<b>Teaching Assistant, UNIVERSITY OF OSLO</b> <ul style="list-style-type: none"><li>Taught various courses in mathematics, geophysics and modelling..</li><li>Responsible for organizing weekly group sessions of up to 30 students, preparation of teaching material, and grading of assignments.</li></ul>
January 2020 May 2021	<b>Research Assistant   Part-Time Student Job, NORWEGIAN METEOROLOGICAL INSTITUTE</b> <ul style="list-style-type: none"><li>Analyzed aerosol trends in CMIP6 climate models and observations as part of the Climate Modelling and Air Pollution group.</li></ul>
August 2020 March 2021	<b>Weather in a Tank Laboratory Work   Part-Time Student Job, UNIVERSITY OF OSLO</b> <ul style="list-style-type: none"><li>Developed and conducted fluid dynamics demonstrations for educational use.</li></ul>
August 2018	<b>Math Teacher, SOMMERKOLEN OSLO</b> <ul style="list-style-type: none"><li>Responsible for preparing and delivering the course <i>Forsmak på R2</i>.</li></ul>
October 2016 March 2020	<b>Substitute Teacher, OSLO KATEDRALSKOLE VGS</b> <ul style="list-style-type: none"><li>On-call substitute teacher in upper secondary school. Planned and delivered lessons in physics and mathematics on all levels.</li></ul>

## Relevant Courses

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STK-IN9300	Statistical Learning Methods in Data Science
FYS-STK4155	Applied Data Analysis and Machine Learning

## Publications

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- 2025 Shaun Jonston, **Anna Lina Petruseviciute Sjur**, Pål Erik Isachsen, Joseph Henry LaCasce. *Eddy- and wind-driven circulation in the enclosed basins of the Norwegian Sea evaluated using a model and absolute geostrophic flow from Argo*. Journal of Geophysical Research : Oceans, 130(7), e2024JC021990. <https://doi-org.ezproxy.uio.no/10.1029/2024JC021990>
- 2025 **Anna Lina Petruseviciute Sjur**, Pål Erik Isachsen, Johan Nilsson, Joseph Henry LaCasce, Magnus Dyrmoose Ryseth. *The wind-driven time-variable circulation in the Arctic Mediterranean*. Journal of Geophysical Research : Oceans, 130(4), e2024JC021713. <https://doi-org.ezproxy.uio.no/10.1029/2024JC021713>

## Selected Outreach & Communication

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- 2025 *Finner turbulens og uvær i havstrømmene*. Interview in UiO's popular science research magazine. Available at [titan.uio.no](https://titan.uio.no)
- 2025 *Idealized models for understanding Arctic Ocean Circulation*. Invited seminar at Statkraft. Supplementary material available at [psjur.no](https://psjur.no)
- 2025 *Flow asymmetry over topography: Implications for large-scale circulation*. Talk at EGU General Assembly, Vienna. Supplementary material available at [psjur.no](https://psjur.no)
- 2024 *The Time Variable Circulation of the Arctic Ocean and Its Surrounding Seas*. Invited talk at IARPC Collaborations. Recording available on YouTube.
- 2023 *Analytical Model for Wind-Driven Ocean Flow Predicts Circulation in Arctic Mediterranean*, Poster at IUGG23. Poster available at [psjur.no](https://psjur.no)

## Extracurricular Activities

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- 2020 Student representative in hiring committee.
- 2017 Space Weather Science School, Tokyo, Japan.
- 2015-2016 Member of physics student committee (Fysisk fagutvalg).
- 2016 Barista in student cafe.

## References on request

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