

Houssam Yassin

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EDUCATION

PhD in Atmospheric and Oceanic Sciences (AOS) [Anticipated: July 2022] 2017- present
Princeton University, Princeton, NJ

Thesis: Surface quasigeostrophic dynamics with variable stratification.

Advisor: Dr. Stephen Griffies

BSc with Honors: Mathematical Physics 2013-2017
University of Alberta, Edmonton, AB

PUBLICATIONS

Yassin, H. & Griffies, S. M., (in prep.): **Seasonality in surface quasigeostrophic turbulence with variable stratification.** [arXiv:2110.04242](https://arxiv.org/abs/2110.04242)

Yassin, H. & Griffies, S. M., (submitted): **On the discrete normal modes of quasigeostrophic theory.** *Journal of Physical Oceanography*. [arXiv:2101.07432](https://arxiv.org/abs/2101.07432)

Yassin, H., (2021): **Normal modes with boundary dynamics in geophysical fluids.** *Journal of Mathematical Physics*, **64**, 093102. [doi:10.1063/5.0048273](https://doi.org/10.1063/5.0048273)

Van den Bremer, T. S., Yassin, H. & Sutherland, B. R. (2019): **Lagrangian transport by vertically confined internal wavepackets.** *Journal of Fluid Mechanics*, **864**, 348-380. [doi:10.1017/jfm.2019.30](https://doi.org/10.1017/jfm.2019.30)

AWARDS

Princeton Energy and Climate Scholar, *Princeton University* 2019-2022
 Geophysical Fluid Dynamics Fellow, *Woods Hole Oceanographic Institution* 2019
 Centennial Fellowship in the Natural Sciences, *Princeton University* 2017-2021
 Dean's Silver Medal in Science, *University of Alberta* 2017
 NSERC Undergraduate Student Research Award (x3) 2015-2017

OUTREACH & SERVICE

Co-presenter, *Princeton Day School* Energy and Climate Scholars 2021-2022
 Student representative, AOS DEI Committee, *Princeton University* 2020-2021
 Co-organizer, AOS student seminar, *Princeton University* 2019-2020
 Co-organizer, AOS workshop on Machine Learning and Climate Modelling 2019

PRESENTATIONS

Yassin, H. & Griffies, S. M., (Nov 2021): **A submesoscale k^{-2} kinetic energy spectrum from surface quasigeostrophic theory with variable stratification.** *74th Annual Meeting of the APS Division of Fluid Dynamics*. [Accepted in-person talk]

Yassin, H. & Griffies, S. M., (Sep 2021): **Seasonality in surface quasigeostrophic turbulence with variable stratification.** *NYU Courant Center for Atmosphere Ocean Science Student Seminar*. [Virtual talk]

Yassin, H. & Griffies, S. M., (Feb 2021): **Discrete normal mode decompositions in quasigeostrophic theory.** *Ocean Model Working Group Meeting for the Community Earth System Model.* [Virtual talk]

Yassin, H. & Griffies, S. M., (Jan 2021): **Are the baroclinic modes incomplete? On the normal modes of quasigeostrophic theory.** *2021 DRAKKER Annual Workshop.* [Virtual talk]

Yassin, H. (Nov 2020): **Normal modes with boundary dynamics.** *73rd Annual Meeting of the APS Division of Fluid Dynamics.* [Virtual recorded talk]