KAUSHAL GIANCHANDANI
Ph.D. student in Oceanography

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EDUCATION

Ph.D. Oceanography   Oct 2017 – present
Hebrew University of Jerusalem, Israel (HUJI)
   Thesis: The physical-biogeochemical dynamics of snowball Earth conditions

Integrated B.Sc. - M.Sc. Physics   Aug 2012 – May 2017
National Institute of Science Education and Research (NISER), Bhubaneswar, India
   Thesis: Transition to turbulence in subcritical baroclinic flows

RESEARCH INTERESTS

(Physical & Paleo-) Oceanography, Climate dynamics, Nonlinear dynamics, Statistical analysis

PUBLICATIONS

[2] **Gianchandani, Kaushal,** Hezi Gildor, and Nathan Paldor. "On the role of domain aspect ratio in the westward intensification of wind-driven surface ocean circulation." accepted for publishing in *Ocean Science* (2021).

[1] Campisi-Pinto, Salvatore, **Kaushal Gianchandani**, and Yosef Ashkenazy. "Statistical tests for the distribution of surface wind and current speeds across the globe." *Renewable Energy* 149 (2020): 861-876.

HONORS AND AWARDS

Innovation in Science Pursuit for Inspired Research (INSPIRE) Fellowship   Aug 2012 – May 2017
   Sponsor: Department of Science & Technology (DST), Govt. of India
Summer Intern Fellowship   May – Jul 2016
   Sponsor: Université de Lyon
Physics Summer Research Fellowship   Jun – Jul 2015
   Sponsor: Institute of Mathematical Sciences (IMSc), Chennai
Best Student award, St. Gregorios Senior Secondary School, Udaipur   2012

EMPLOYMENT HISTORY

Research Assistant, Institute of Earth Sciences, HUJI   Oct 2017 – present
Teaching Assistant, Institute of Earth Sciences, HUJI   Oct 2020 – Jan 2021
   Course: Mathematical Methods in Scientific Models
Summer Intern, École Normale Supérieure de Lyon (ENS de Lyon)   May – Jul 2016
   Project Title: Transition to turbulence in subcritical baroclinic flows   (cont. as Master's thesis)
Summer Research Fellow, IMSc, Chennai   Jun – Jul 2015
   Project Title: Binary logic using spatially patterned deaths in chemical oscillators
Summer Intern, Indian Institute of Science Education and Research – Kolkata   May – Jun 2014
   Project Title: Bouncing ball(s) experiment: Time series analysis using Wavelets and EMD

CONFERENCES, SCHOOLS and WORKSHOPS

Conferences		Oct 2017 – present
Wave Dynamics and Climate workshop	Talk	Sep 2019, Eilat, IL
The Israeli Association for Aquatic Sciences' 15th Annual Meeting	Talk	Mar 2019, Haifa, IL
EPScon 2019	Poster	Mar 2019, Rehovot, IL
GFD Days 2019	Poster	Jan 2019, Sede Boqer, IL

Ice, Oceans and Atmospheres on Earth and Elsewhere		May 2018, Rome, IT
10th Conference on Nonlinear Systems and Dynamics	Poster	Dec 2016, Kolkata, IN
Statphys26		Jul 2016, Lyon, FR

Schools

Summer School on Fluid Dynamics of Sustainability & the Environment	Poster	Sep 2018, Cambridge, UK
10th Winter School on Astroparticle Physics		Dec 2015, Darjeeling, IN

PROFESSIONAL MEMBERSHIPS

The New York Academy of Science	Oct 2020 – Oct 2021
The Oceanography Society	Apr 2019 – present
Israeli Association for Aquatic Sciences	Mar 2019 – present

COMPUTER SKILLS

Languages:	Python, C++, HTML, Bash, Fortran
Packages:	MITgcm, (py)ferret, pyqg, Latex, gnuplot
Software:	MATLAB, Mathematica
Operating systems:	Ubuntu (other linux based OSs), macOS (unix), Microsoft Windows.