

**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

<b>Conferences</b>		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  
10th Conference on Nonlinear Systems and Dynamics  
Statphys26

Poster  
May 2018, Rome, IT  
Dec 2016, Kolkata, IN  
Jul 2016, Lyon, FR

### **Schools**

Summer School on Fluid Dynamics of Sustainability & the Environment  
10th Winter School on Astroparticle Physics

Poster  
Sep 2018, Cambridge, UK  
Dec 2015, Darjeeling, IN

### **PROFESSIONAL MEMBERSHIPS**

The New York Academy of Science  
The Oceanography Society  
Israeli Association for Aquatic Sciences

Oct 2020 – Oct 2021  
Apr 2019 – present  
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.