# 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

#### **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)

Project Title: Transition to turbulence in subcritical baroclinic flows

Summer Research Fellow, IMSc, Chennai

May – Jul 2016

(cont. as Master's thesis)

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**

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

# **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: Microsoft Windows, Ubuntu, Fedora and other Linux based OSs.