

KAUSHAL GIANCHANDANI

Curriculum Vitae

Fredy and Nadine Hermann Institute of Earth Sciences
Hebrew University of Jerusalem
Edmond J Safra Campus
Givat Ram, Jerusalem, Israel - 9190401

kaushal.g@mail.huji.ac.il
+972-50-471-4621
<https://kaushalgianchandani.github.io/>

EDUCATION

Ph.D. in Oceanography Oct 2017 – present
Hebrew University of Jerusalem, Israel (HUJI)
Thesis: The physical-biogeochemical dynamics of snowball Earth conditions: hard vs soft snowball states
Advisors: Prof. Hezi Gildor, Prof. Yosef Ashkenazy and Prof. Eli Tziperman

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

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](#)." *Ocean Science* (2021): in press.

[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

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

Graduate Research Assistant Oct 2017 – present
Institute of Earth Sciences, Hebrew University of Jerusalem, Israel
Project title: The physical-biogeochemical dynamics of snowball Earth conditions
Advisors: Prof. Hezi Gildor, Prof. Yosef Ashkenazy and Prof. Eli Tziperman

Project title: Models of surface ocean circulation
Advisors: Prof. Nahtan Paldor and Prof. Hezi Gildor

Project title: Statistical analysis of global distribution of surface winds and ocean currents
Advisor: Prof. Yosef Ashkenazy

Teaching Assistant Institute of Earth Sciences, Hebrew University of Jerusalem, Israel <i>Course: Mathematical Methods in Scientific Models</i> Instructor: Prof. Nathan Paldor	Oct 2020 – Jan 2021
Summer Intern École Normale Supérieure de Lyon (ENS de Lyon) <i>Project Title: Transition to turbulence in subcritical baroclinic flows</i> Advisor: Dr. Antoine Venaille	May – Jul 2016 (cont. as Master's thesis)
Summer Research Fellow Institute of Mathematical Sciences (IMSc), Chennai <i>Project Title: Binary logic using spatially patterned deaths in chemical oscillators</i> Advisor: Prof. Sitabhra Sinha	Jun – Jul 2015
Summer Intern Indian Institute of Science Education and Research – Kolkata <i>Project Title: Bouncing ball(s) experiment: Time series analysis using Wavelets and EMD</i> Advisor: Prof. Prasanta K. Panigrahi and Prof. A.N. Sekar Iyengar	May – Jun 2014

INVITED TALKS

Atmospheres and Oceans seminar Johns Hopkins University, Baltimore, MD, USA.	Jan 2021, Baltimore, US
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CONFERENCES, SCHOOLS and WORKSHOPS

Conferences:

Wave Dynamics and Climate workshop Inter-University Institute for Marine Sciences, Eilat, IL	Talk	Sep 2019
The Israeli Association for Aquatic Sciences' 15th Annual Meeting Haifa, IL	Talk	Mar 2019
EPScon 2019 Weizmann Institute of Science, Rehovot, IL	Poster	Mar 2019
GFD Days 2019 Ben-Gurion University of the Negev, Sede Boqer, IL	Poster	Jan 2019
Ice, Oceans and Atmospheres on Earth and Elsewhere CNR Headquarters, Rome, IT		May 2018
10th Conference on Nonlinear Systems and Dynamics Indian Institute of Science Education and Research - Kolkata, Kolkata, IN	Poster	Dec 2016
Statphys26 Lyon, FR		Jul 2016
Schools:		
Summer School on Fluid Dynamics of Sustainability & the Environment (FDSE) University of Cambridge, Cambridge, UK	Poster	Sep 2018
10th Winter School on Astroparticle Physics Bose Institute, Darjeeling, IN		Dec 2015

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.