KAUSHAL GIANCHANDANI

Curriculum Vitae

Fredy and Nadine Hermann Institute of Earth Sciences Hebrew University of Jerusalem Edmond J Safra Campus, Givat Ram kaushal.g@mail.huji.ac.il +972 (50) 471 4621

https://kaushalgianchandani.github.io/

EDUCATION

Ph.D. in Oceanography

Jerusalem, Israel - 9190401

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 & Data Analysis), Nonlinear Dynamics.

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 17, no. 1 (2021): 351-363.

[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.

WORK EXPERIENCE

Graduate Research Assistant

Oct 2017 - present

Institute of Earth Sciences, Hebrew University of Jerusalem, Israel

Teaching Assistant Oct 2020 – Jan 2021

Institute of Earth Sciences, Hebrew University of Jerusalem, Israel

Course: Mathematical Methods in Scientific Models

Instructor: Prof. Nathan Paldor

Summer Intern May – Jul 2016

École Normale Supérieure de Lyon (ENS de Lyon)

Project Title: Transition to turbulence in subcritical baroclinic flows (continued as master's thesis)

Advisor: Dr. Antoine Venaille

Summer Research Fellow Jun – Jul 2015

Institute of Mathematical Sciences (IMSc), Chennai

Project Title: Binary logic using spatially patterned deaths in chemical oscillators

Advisor: Prof. Sitabhra Sinha

Summer Intern May – Jun 2014

Indian Institute of Science Education and Research - Kolkata

Project Title: Time series analysis of bouncing ball experiment using Wavelet Transformation and EMD

Advisor: Prof. Prasanta K. Panigrahi and Prof. A.N. Sekar Iyengar

INVITED TALKS

Atmospheres and Oceans seminar

Jan 2021

Johns Hopkins University, Baltimore, MD, USA.

CONFERENCES, SCHOOLS and WORKSHOPS

Conferences and Workshops:

Next Generation Challenges in Energy-Climate Modelling Workshop 2021 University of Reading, Reading, UK, Online	Poster	Sep 2021
NASA PACE Applications Workshop 2021 National Aeronautics and Space Space Administration, Virtual event		Sep 2021
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-Guiron University of the Negev, Sede Boqer, IL	Poster	Jan 2019
Ice, Oceans and Atmospheres on Earth and Elsewhere CNR Headquaters, 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:		
International Spring School: Hydrothermal Vents European Astrobiology Network Association, Online		May 2021
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
SERVICES		
Co-chair , Session Al05 at Ocean Science Meeting 2022 Participant of the inaugural OSM Session Mentoring Program (OSMP)	Feb – Mar 2022	
Mentor, Young Data Scientists League (YDSL)	Jan - Apr 2022	
Member, The Oceanography Society (TOS) Student Committee Served on the Coding Resources Subcommittee	Sep 2021 - present	
AWARDS		
Innovation in Science Pursuit for Inspired Research (INSPIRE) Fellowship Sponsor: Department of Science & Technology (DST), Govt. of India	Aug 2012 - May 2017	
Physics Summer Research Fellowship Sponsor: Institute of Mathematical Sciences (IMSc), Chennai	Jun - Jul 2015	
Best Student award, St. Gregorios Senior Secondary School, Udaipur		2012
MEMBERSHIPS		
The New York Academy of Science	Oct 202	20 - Oct 2021
The Oceanography Society	Apr 2019 - present	
Israeli Association for Aquatic Sciences	Mar 20)19 - present
COMPLITED SVILLS		

COMPUTER SKILLS

Languages: Python, Fortran, Bash, HTML, C++
Packages: MITgcm, (py)ferret, Latex, gnuplot

Software: MATLAB, Mathematica

Operating systems: Ubuntu (other linux based OSs), macOS (unix), Microsoft Windows