KAUSHAL GIANCHANDANI

Curriculum Vitae

Fredy and Nadine Hermann Institute of Earth Sciences
Hebrew University of Jerusalem
Edmond J Safra Campus
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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 & 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.

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

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 — (cont. 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 Empirical Mode Decomposition
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:

Wave Dynamics and Climate workshop	Talk	Sep 2019
Inter-University Institute for Marine Sciences, Eilat, IL		
The Israeli Association for Aquatic Sciences' 15th Annual Meeting	Talk	Mar 2019
Haifa, IL		
EPScon 2019	Poster	Mar 2019
Weizmann Institute of Science, Rehovot, IL		
GFD Days 2019	Poster	Jan 2019
Ben-Guiron University of the Negev, Sede Boqer, IL		
Ice, Oceans and Atmospheres on Earth and Elsewhere		May 2018
CNR Headquaters, Rome, IT		
10th Conference on Nonlinear Systems and Dynamics	Poster	Dec 2016
Indian Institute of Science Education and Research - Kolkata, Kolkata, IN		
Statphys26		Jul 2016
Lyon, FR		

Schools:

International Spring School: Hydrothermal Vents		May 2021
European Astrobiology Network Association, Online		
Summer School on Fluid Dynamics of Sustainability & the Environment (FDSE)	Poster	Sep 2018
University of Cambridge, Cambridge, UK		
10th Winter School on Astroparticle Physics		Dec 2015
Bose Institute, 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, Latex, gnuplot
Software:	MATLAB, Mathematica
Operating systems:	Ubuntu (other linux based OSs), macOS (unix), Microsoft Windows.