

KAUSHAL GIANCHANDANI

Curriculum Vitae

Fredy and Nadine Hermann Institute of Earth Sciences
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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 EMD
Advisor: Prof. Prasanta K. Panigrahi and Prof. A.N. Sekar Iyengar

INVITED TALKS

Atmospheres and Oceans seminar Johns Hopkins University, Baltimore, MD, USA.	Jan 2021
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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 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-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:

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 AI05 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

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, Fortran, Bash, HTML, C++
Packages:	MITgcm, (py)ferret, Latex, gnuplot
Software:	MATLAB, Mathematica
Operating systems:	Ubuntu (other linux based OSs), macOS (unix), Microsoft Windows