KAUSHAL GIANCHANDANI
Curriculum Vitae

Fredy and Nadine Hermann Institute of Earth Sciences kaushal.g@mail.huji.ac.il
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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: hard vs soft snowball states.
Advisors: Prof. Hezi Gildor, Prof. Yosef Ashkenazy and Prof. Eli Tziperman

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
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

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

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: Bouncing ball(s) experiment: Time series analysis using Wavelets and EMD
Advisor: Prof. Prasanta K. Panigrahi and Prof. A.N. Sekar Iyengar

INVITED TALKS

Atmospheres and Oceans seminar   Jan 2021, Baltimore, US
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:

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, pyqg, Latex, gnuplot
Software: MATLAB, Mathematica
Operating systems: Ubuntu (other linux based OSs), macOS (unix), Microsoft Windows.