

Nili Harnik, Ph.D.

CURRICULUM VITAE

Date and place of birth: 1969, Jerusalem, Israel

Marital Status (No. of children): Married, two children

Home page: <http://www.tau.ac.il/~harnik/>

RESEARCH INTERESTS:

Large scale atmospheric dynamics and variability, and geophysical fluid dynamics, with a tendency towards fundamental understanding, and idealized models. Recently, these also include moisture.

EDUCATION

2000	MIT	Atmospheric Sciences	Ph.D.
1993	Tel Aviv University	Geophysics & Atmos. Sci.	B.Sc.

APPOINTMENTS

2014-present: Professor, Geophysics Department, Tel Aviv University, Israel

2016-2020 Head of Geophysics Department, Tel Aviv University, Israel

2016: 1 month visiting prof., Department of Earth Sciences, Ecole Normale Supérieure, Paris

2015- 2016: Rossby visiting fellow, International Meteorological Institute, Stockholm

2008-2014: Senior lecturer, Geophysics Department, Tel Aviv University, Israel

2014: Visiting Scientist, WIZMANN Institute, Israel

2005- : Adjunct scientist, Lamont Doherty Earth Observatory, Columbia University, NY

2004-2007: Lecturer, Geophysics Department, Tel Aviv University, Israel

2003-2004: Storke Doherty lecturer, Lamont Doherty Earth Observatory, Columbia University, NY

2001-2003: Postdoctoral researcher, Lamont Doherty Earth Observatory, Columbia University, NY

2000-2001: Postdoctoral researcher, Florida state university, FL / visiting scientist, MIT, MA

OTHER PROFESSIONAL ACTIVITIES

2022 - 2023 Member, Council for Higher Education advisory committee on Energy and Climate

2021 - present Member, Ministry of Education advisory committee on Climate Change education

2020 - present Advisory board member, Tel Aviv University Climate Crisis Initiative

2020 - present Member, SPARC Scientific Steering Group

2019 - present Co Editor Weather and Climate Dynamics

2015 - 2020: Co-Head of the Israeli Atmospheric and Climatic Data Center, at Tel Aviv University: <http://www.iacdc.tau.ac.il>

2015 - 2019: Secretary of the International Commission on Dynamical Meteorology (part of the IAMAS)

2013 - 2019 Member of Atmosphere Ocean Fluid Dynamics committee (part of AMS)

ACADEMIC AND PROFESSIONAL AWARDS

2004-2007 Alon Fellowship, Israeli Council for Higher Education (Tel Aviv, Israel)

2003-2004 Storke-Doherty Lecturer (New York, USA)

2001-2003 Lamont-Doherty postdoctoral fellowship (New York, USA)

1993-1994 Fulbright Grant, United States-Israel Educational Foundation

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TEACHING EXPERIENCE

Undergraduate: Intro to Dynamic Meteorology, Earth Sciences Lab course (experiments); Climate Theory; Theory of the General Circulation of the Atmosphere; Advanced Mathematical Methods; Atmospheric dynamics; Intro to Dynamic meteorology

Graduate: Preparation of Earth Science Experiments (graduate students built undergrad lab experiments); Middle Atmosphere dynamics; Statistical Observations of the Atmosphere; Yearly reading seminars on select topics in atmosphere and climate
SPARC training school (2017), Advanced Climate Dynamics Course (2022)

PROPOSALS FUNDED - last 5 years

2023-2025 Indo-Israel (MOST) joint research program, *A data-driven machine learning approach to dynamical balance in the tropical and extra-tropical climate and extreme weather events*, PI (with Prof. Jai Sukhatme, Indian PI, Prof. Joy Monteiro, Indian Co-PI)

2023-2027 Israel Science Foundation, *The dynamical role of cyclones in Mediterranean moisture-flux variability and trends, with an emphasis on Eastern Mediterranean drying* PI

2023-2026 Bi-National Science Foundation, *A mechanistic understanding of poleward moisture flux trends in reanalyses and models* PI (with Prof. Gang Chen, US PI, Prof. Jian Lu, collaborator)

2021-2025 EU Horizon 2020 ITN grant: *European weather Extremes: Drivers, Predictability and Impacts* PI (as part of a consortium of universities, research centres and private companies)

2018-2020 Indo-Israel joint research program: *Developing a Mechanistic Understanding of Moist Tropical Systems* PI (with Prof. Jai Sukhatme, Indian PI)

2017-2021 Israel Science Foundation, *Dynamical regimes transitions of the global atmospheric circulation* PI

LAST UPDATE: Mar 2024