OFER COHEN

DPhil (PhD) Candidate in Interdisciplinary Life and Environmental Sciences
University of Oxford

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Google Scholar | ORCID | LinkedIn | ResearchGate

Research Interests

Climate dynamics; aerosol–climate interactions; ocean–atmosphere interactions; atmospheric circulation; Mediterranean climate; seasonal-to-decadal variability.

Education

University of Oxford *2025–present*
DPhil (PhD) in Atmospheric Physics Oxford, UK

Interdisciplinary Life and Environmental Science Landscape Award (ILESLA) Doctoral Training Programme
Project: Understanding the competing influences of anthropogenic aerosols and greenhouse gases on the large-scale atmospheric circulation.
Supervisors: Prof. Tim Woollings and Prof. Philip Stier.

The Hebrew University of Jerusalem *2023–2025*
M.Sc. in Atmospheric Science Jerusalem, Israel

Thesis: Effect of ocean-atmosphere interaction in the Mediterranean on sub-seasonal to seasonal precipitation in the Levant.
Supervisor: Prof. Ori Adam. **With distinction.**

The Hebrew University of Jerusalem *2020–2023*
B.Sc. in Geology and Atmospheric, Oceanic and Climate Science Jerusalem, Israel

With distinction.

Publications

Cohen, **O.**, N. Hart, S. Okajima, P. Stier, and T. Woollings (2026). "Competing roles of anthropogenic aerosols and greenhouse gases in June–August baroclinicity and storm-track trends". In: *EGUsphere* 2026, pp. 1–50. DOI: 10.5194/egusphere-2026-5066.

Cohen, **O.**, A. Hochman, E. Strobach, D. Rostkier-Edelstein, H. Gildor, and O. Adam (2026). "Mediterranean Sea heat uptake variability as a precursor to winter precipitation in the Levant". In: *Weather and Climate Dynamics* 7, pp. 263–275. DOI: 10.5194/wcd-7-263-2026.

Goldsmith, Y., **O. Cohen**, M. Stein, A. Torfstein, Y. Kiro, Y. Kushnir, Y. Bartov, L. Ben-Moshe, A. Frumkin, N. G. Lensky, J. Keinan, L. Gonen, and Y. Enzel (2023). "Holocene humid periods of the Levant – evidence from Dead Sea lake-levels". In: *Quaternary Science Reviews* 318, p. 108312. DOI: https://doi.org/10.1016/j.quascirev.2023.108312.

Additional Research Experience

Software engineering group project *2026*
University of Oxford Oxford, UK

Month long group project supervised by Dr. Milan Kloewer titled: "Data visualisation with SpeedyWeather: Interactive and Animated". The project consisted of creating an interactive visualisations toolbox for calculating and plotting the radiative balance from speedyweather.jl model output.

Undergraduate Research Assistant *2021–2023*
The Hebrew University of Jerusalem Jerusalem, Israel

Studied the paleoclimate record of the Dead Sea and patterns in global relative humidity.
Supervised by Dr. Yoni Goldsmith and Prof. Ori Adam.

Teaching Experience

The Hebrew University of Jerusalem *2023–2025*
Institute of Earth Sciences Jerusalem, Israel

Teaching Assistant for the following courses:

- Introduction to Climate (68105)
- Thermodynamics of the Atmosphere and Ocean (82314)
- Selected Environmental Challenges (89110)

Conference Presentations

Climate-IL conference *2026*
Tel Aviv University Tel Aviv, Israel

"Competing roles of anthropogenic aerosols and greenhouse gases in June–August baroclinicity and storm-track trends" — **Oral presentation**

CACTI (Composition Air Quality Climate inTeractions Initiative) WORKSHOP 2026 *2026*
Technical University of Crete Chania, Greece and online

"Competing roles of anthropogenic aerosols and greenhouse gases in June–August baroclinicity and storm-track trends" — **Oral presentation** (online)

S2S2D Conference 2026: Advancing Climate Predictions from Weeks to Decades to Benefit Society *2026*
University of Reading Reading, UK

"Mediterranean Sea heat uptake variability as a precursor to winter precipitation in the Levant" — **Poster presentation**

11th National UK Climate Dynamics Workshop *2026*
University of Reading Reading, UK

"Mediterranean Sea heat uptake variability as a precursor to winter precipitation in the Levant" — **Oral presentation**

Oceanography Symposium: Bridging Ocean and Atmosphere — Dynamics and Ecosystem Interactions *2025*
Poster presentation Jerusalem, Israel

Earth and Planetary Sciences Students Conference (EPScon 2025) *2025*
weizmann institute of science — **Poster presentation** Rehovot, Israel

IAAS–IOLR Aquatic Sciences Joint Meeting *2024*
Poster presentation Eilat, Israel

3rd MedCyclones Workshop and Training School *2024*
ESA–ESRIN — **Poster presentation and training school** Rome, Italy

Awards & Scholarships

Sagol prize for research excellence at the Climate-IL conference *October 2026*
Mind-IL and the Sagol foundation Tel Aviv, Israel

Oxford–Reuben Graduate Scholarship *2025–present*
Doctoral studies in Interdisciplinary Life and Environmental Sciences, University of Oxford Oxford, UK

Mintz Prize for Excellence in Atmospheric Studies *2025*
The Hebrew University of Jerusalem Jerusalem, Israel

Best Scientific Poster Award *2025*
Faculty Day Poster Competition, The Hebrew University of Jerusalem Jerusalem, Israel

Dean's Prize for Outstanding MSc Students *2024*
The Hebrew University of Jerusalem Jerusalem, Israel

Scholarship for Excellence For MSc research in Atmospheric Science *2023–2024*
Faculty of Sciences, The Hebrew University of Jerusalem Jerusalem, Israel

Dean's List for Outstanding undergraduate students *2021, 2023*
The Hebrew University of Jerusalem Jerusalem, Israel

Other Professional Experience

Nature and Hiking Guide *2022–2025*
Green Horizons non-profit organisation Jerusalem, Israel

Strategic Analyst *2020–2021*
Regional impacts of climate change

Technical Skills

Programming and analysis: Python, MATLAB, ArcGIS Pro, Julia.
Graphics: Adobe Illustrator

Languages

Hebrew (native) | English (fluent)