

OFER COHEN

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

ofer.cohen@reuben.ox.ac.uk | +972-50-3332791 | Oxford, UK
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

DPhil (PhD) in Atmospheric Physics

2025–present

Oxford, UK

Interdisciplinary Life and Environmental Science Landscape Award (ILESIA) 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

M.Sc. in Atmospheric Science

2023–2025

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

B.Sc. in Geology and Atmospheric, Oceanic and Climate Science

2020–2023

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

University of Oxford

2026

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

The Hebrew University of Jerusalem

2021–2023

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
Institute of Earth Sciences

2023–2025
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

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

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 Green Horizons non-profit organisation	<i>2022–2025</i> Jerusalem, Israel
Strategic Analyst Regional impacts of climate change	<i>2020–2021</i>

Technical Skills

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

Languages

Hebrew (native) | English (fluent)