

Dror, T., Lehahn, Y., Altaratz, O., & Koren, I. (2018). Temporal-Scale Analysis of Environmental Controls on Sea Spray Aerosol Production Over the South Pacific Gyre. *Geophysical Research Letters*, 45(16), 8637-8646. [link](#).

Chemke, R., **Dror, T.**, & Kaspi, Y. (2016). Barotropic kinetic energy and enstrophy transfers in the atmosphere. *Geophysical Research Letters*, 43(14), 7725-7734. [link](#).

ACCEPTED

Dror, T., & Feingold, G. (2026). Amazon Forest Loss: an All-Sky Biophysical TOA Cooling Feedback. *Science* (accepted).

UNDER REVIEW

Dror, T., & Feingold, G. (2026). Deforestation Triggers State-dependent Cloud Regimes in the Amazon. In revisions for *Earth's Future*.

Chekroun, M. D., **Dror, T.**, Koren, I., & Honghu, L. (2026). Multilayered Stochastic Delay Models with Hierarchical Structures: Modeling Emergent Beat Patterns. Under review in *npj Complexity*.

Roth, H., **Dror, T.**, Altaratz, O., & Koren, I. (2026). Ternary Pattern Space of Shallow Marine Clouds. In revisions for *Journal of Geophysical Research: Atmosphere*.

Zhang, J., Painemal, D., **Dror, T.**, Lim, J.S., Sorooshian, A., & Feingold, G. (2026). Inferring processes governing cloud transition during mid-latitude marine cold-air outbreaks from satellite. Under review in *Atmospheric Chemistry & Physics*. [link](#).

Awards & Fellowships

2024	The CHE/PBC Fellowship Program for Outstanding Female Postdoctoral Students , Higher Education Council	Israel
2024	CIRES Postdoctoral Visiting Fellowship , Cooperative Institute for Research in Environmental Sciences at the University of Colorado Boulder	Boulder, CO, USA
2023	Next-gen Environmental Sustainability Postdoc award , Institute for Environmental Sustainability, Weizmann Institute of Science	Israel
2021	PhD Research Fellowship , Weizmann Data Science Research Center	Israel
2021	Outstanding Student and Ph.D. candidate Presentation Award , European Geosciences Union (EGU)	Vienna, Austria
2018	A Travel award , Weizmann Women in science	Israel

Presentations at conferences and seminars

INVITED TALKS

University of Colorado, Boulder, Boase Hydrologic Sciences and Water Resources Engineering Seminar Series, February 2026.

The Weizmann Institute of Science, The Institute for Environmental Sustainability (IES), January 2026.

The Hebrew University of Jerusalem, Institute of Earth Sciences seminar, January 2026.

AMS annual meeting: joint session of the 17th Symposium on Aerosol-Cloud-Climate Interactions and the Second Symposium on Cloud Physics, January 2025.

Technion – Israel Institute of Technology, Environmental Engineering seminar, March 2024.

Tel Aviv University, Geophysics colloquium, February 2024.

The Hebrew University of Jerusalem, Institute of Earth Sciences seminar, January 2024.

Israel Meteorological Service, IMS colloquium, January 2024.

Batsheva de Rothschild Seminar on Cloud-Climate Interactions Across Scales, March 2023. *Green Cumulus clouds throughout the world's continents*. Eilat, Israel.

CONFERENCES

The American Geoscience Union General Assembly, 2025. *Cooling Feedbacks from Amazon Deforestation: An All-Sky Biophysical Perspective*. New Orleans, LA, U.S.A.

Gordon Research Conference, Radiation and Climate, 2025. *Amazon Forest Loss: an All-Sky Biophysical Cooling Feedback*. Maine, U.S.A.

- The American Geoscience Union General Assembly**, 2024. *On the Stable Dynamical Machinery that Dictates Trade Cumulus Cloud Properties*. Washington, D.C., U.S.A.
- The American Geoscience Union General Assembly**, 2023. *Convective steady state in shallow, boundary-layer cloud fields*. San Francisco, CA, U.S.A. & online.
- Workshop on Cloud Organisation and Precipitation Extremes**, 2023. *Organized patterns in greenCu; continental shallow convective clouds*. Trieste, Italy.
- The European Geoscience Union General Assembly**, 2023. *On the properties of greenCu: continental, organized shallow clouds*. Vienna, Austria.
- International Conference on Clouds and Precipitation**, 2021. *Organized shallow continental (green) Cumulus*. Pune, India (virtual).
- The European Geoscience Union General Assembly**, 2021. *EOF analysis of Green Cumulus mesoscale organization*. Vienna, Austria & online.
- The American Geoscience Union General Assembly**, 2021. *On the universal properties of Green Cumulus*. New Orleans, LA, U.S.A. & online.
- The European Geoscience Union General Assembly**, 2019. *Environmental controls on sea spray aerosol production*. Vienna, Austria.
- Workshop on Eulerian vs. Lagrangian methods for cloud microphysics**, 2019. *Ultra-giant CCN's effect on warm clouds*. Krakov, Poland.

Teaching Experience

- 2023 **Cloud physics across scales - a guided reading course**, Weizmann Institute of Science, Co-lecturer
- 2017 **EPScon, Student Conference on Research in Environmental, Earth and Planetary Sciences**,
Weizmann Institute of Science, Organizer

Mentoring

- 2025 **Lukas Rudaitis, M.Sc. Candidate**, Member of the Supervisory and Examining Committee,
Department of Physics and Atmospheric Science, Dalhousie University, Canada.
- 2023 **Hadar Roth**, Young Weizmann scholars, Weizmann Institute of Science.
- 2021 **Toviah Aaronson**, Undergraduate student, scientific project at the Weizmann Institute of Science.
- 2020 **Noga Liberty**, Amos de-Shalit summer school, Weizmann Institute of Science.