

- Dror, T.**, Chekroun, M. D., Altaratz, O., & Koren, I. (2021). Deciphering organization of GOES-16 green cumulus through the empirical orthogonal function (EOF) lens. *Atmospheric chemistry and physics*, 21(16), 12261-12272. [link](#).
- Dror, T.**, Koren, I., Altaratz, O., & Heiblum, R. H. (2020). On the abundance and common properties of continental, organized shallow (green) clouds. *IEEE Transactions on Geoscience and Remote Sensing*. [link](#).
- Dror, T.**, Flores, J. M., Altaratz, O., Dagan, G., Levin, Z., Vardi, A., & Koren, I. (2020). Sensitivity of warm clouds to large particles in measured marine aerosol size distributions – a theoretical study, *Atmospheric Chemistry & Physics*, 20, 15297–15306. [link](#).
- 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](#).

UNDER REVIEW

- 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*.

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 AND SEMINARS

- NOAA Boulder**, Chemical Sciences Laboratory (CSL) Seminar Series, May 2026.
- 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

- American Geoscience Union (AGU) Fall Meeting**, 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.

AGU Fall Meeting, 2024. *On the Stable Dynamical Machinery that Dictates Trade Cumulus Cloud Properties*. Washington, D.C., U.S.A.

AGU Fall Meeting, 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 (EGU) 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 EGU General Assembly, 2021. *EOF analysis of Green Cumulus mesoscale organization*. Vienna, Austria & online.

AGU Fall Meeting, 2021. *On the universal properties of Green Cumulus*. New Orleans, LA, U.S.A. & online.

The EGU 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

- 2025–present **CSL Science Social Weekly Seminar**, NOAA Chemical Sciences Laboratory, Co-organizer
- 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–present **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.