





Or Hadas





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Education

- 2020 – 2026  **Ph.D. Candidate, Weizmann Institute of Science** Atmospheric Dynamics
Thesis title: *Bridging midlatitude weather and climate through the Lagrangian perspective*
- 2017 – 2020  **M.Sc., Weizmann Institute of Science** Atmospheric Dynamics
Thesis title: *Suppression of baroclinic eddies by strong jets.*
- 2016 – 2017  **Aviation Meteorology** Israeli Air Force.
- 2011 – 2016  **B.Sc., Tel Aviv University** in Physics.
Started at the age of 14.






Employment

- 2017 – 2026  **Researcher**, Yohai Kaspi's Atmospheric Dynamics Lab, Weizmann Institute of Science.
Data analysis and modeling of the atmosphere as part of M.Sc. and Ph.D. work.
- 2020 – 2023  **Teaching Assistant**, The Weizmann School of Science.
Provided tutoring for *Atmospheric and Oceanic Fluid Dynamics* and *Climate Change Debates*.
- 2017 – 2019  **Meteorologist**, Israeli Air Force.
- 2015 – 2016  **Researcher**, Yoram Dagan's Condensed Matter Lab, Tel Aviv University.
As part of the program for excellent undergraduate physics students.


Research Interests

-  Climate Dynamics and Modeling, Parameterization, Machine Learning and Information Theory in Climate Science

Methods & Tools

- Numerical Analysis  Using Matlab, Numpy, Scipy, Sklearn (8 years)
- Parallel computing  Using clusters, utilizing various scheduling software (PBS, SLURM, etc., 6 years).
- Big Data  Analysis of large datasets (ERA-5, CMIP6, etc.) using Dask (6 years)
- Climate Modeling  Running and analyzing data from the GFDL's FMS GCM (8 years)
- Machine Learning  Building and training models using Tensorflow (3 years)

Publications

- 1** **O. Hadas** and Y. Kaspi, "Stronger jet, weaker storms: A mechanistic perspective on the Atlantic-Pacific storm paradox," Under second review, Nature Comm.
- 2** **O. Hadas** and Y. Kaspi, "Quantifying the influence of climate on storm activity using machine learning," *Geophys. Res. Lett.*, vol. 53, e2025GL118496, 2026.  DOI: [10.1029/2025GL118496](https://doi.org/10.1029/2025GL118496).

- 3 W. Yao, **O. Hadas**, and Y. Kaspi, "Predictability of storms in an idealized climate revealed by machine learning," *Geophys. Res. Lett.*, vol. 53, e2025GL118886, 2026, Equal contribution; supervised the research. [DOI: 10.1029/2025GL118886](#).
- 4 **O. Hadas** and Y. Kaspi, "A Lagrangian perspective on the growth of midlatitude storms," *AGU Adv.*, vol. 6, no. 3, e2024AV001555, 2025. [DOI: 10.1029/2024AV001555](#).
- 5 J. E. Blanco, R. Caballero, G. Datseris, *et al.*, "A cloud-controlling factor perspective on the hemispheric asymmetry of extratropical cloud albedo," *J. Climate*, vol. 36, no. 6, pp. 1793–1804, 2023. [DOI: 10.1175/JCLI-D-22-0410.1](#).
- 6 **O. Hadas**, G. Datseris, J. Blanco, *et al.*, "The role of baroclinic activity in controlling Earth's albedo in the present and future climates," *P. Natl. Acad. Sci.*, vol. 120, no. 5, e2208778120, 2023. [DOI: 10.1073/pnas.2208778120](#).
- 7 G. Datseris, J. Blanco, **O. Hadas**, *et al.*, "Minimal recipes for global cloudiness," *Geophys. Res. Lett.*, vol. 49, no. 20, e2022GL099678, 2022. [DOI: 10.1029/2022GL099678](#).
- 8 **O. Hadas** and Y. Kaspi, "Suppression of baroclinic eddies by strong jets," *J. Atmos. Sci.*, vol. 78, no. 8, pp. 2445–2457, 2021. [DOI: 10.1175/JAS-D-20-0289.1](#).
- 9 T. Tamarin-Brodsky and **O. Hadas**, "The asymmetry of vertical velocity in current and future climate," *Geophys. Res. Lett.*, vol. 46, no. 1, pp. 374–382, 2019, *Equal contributors. [DOI: 10.1029/2018GL080363](#).





Fellowships and Awards

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| 2026 | <div> <div></div> Rotchild Postdoctoral Fellowship, Yad Hanadiv Foundation link </div> |
| 2025 | <div> <div></div> Harry H. Hess Postdoctoral Fellowship, Department of Geosciences, Princeton University link </div> <div> <div></div> Harry H. Hess Postdoctoral Fellowship, Department of Geosciences, Princeton University link </div> <div> <div></div> Editor's Highlight on Eos.org (top 2% of papers), American Geophysical Union link </div> |
| 2023 | <div> <div></div> Grant to support participation in the WCRP Conference, World Meteorological Organization </div> |
| 2022 | <div> <div></div> Pearlman Prize for Student-Initiated Research, Weizmann Institute of Science </div> <div> <div></div> Graduate Studies Fellowship, Azrieli Foundation link </div> |
| 2021 | <div> <div></div> 30 Under 30 list, Forbes Israel link </div> <div> <div></div> Graduate Studies Fellowship, IES, Weizmann Institute of Science link </div> |
| 2020 | <div> <div></div> Dean's Prize for Outstanding Master's Graduates, Weizmann Institute of Science </div> |
| 2018 | <div> <div></div> Award of Excellence, Meteorological Unit, Israeli Air Force </div> |
| 2015 | <div> <div></div> Research Program for Outstanding Students, Physics Department, Tel Aviv University link </div> |
| 2011 | <div> <div></div> Presidential Program for Scientists of the Future link </div> |

Outreach & Service

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| 2022–2026 | <div> <div></div> Peer Reviewer for Academic Journals.
 <i>Journal of the Atmospheric Sciences; Journal of Climate; Quarterly Journal of the Royal Meteorological Society; Weather and Climate Dynamics; Nature</i> (co-reviewer) </div> |
| 2025 | <div> <div></div> Guest Speaker, Future Scientists Center.
 Talk: "The Silent Revolution of Weather and Climate Predictions" link </div> |
| 2024 – 2025 | <div> <div></div> Tutor, Odyssey Program
 Mentored high school students in physics and math (as a program alumnus) link </div> |
| 2023 | <div> <div></div> Guest Speaker, Tel Aviv Youth University.
 Talk: "Predicting the Unpredictable: Understanding Cloud Behavior" (Wolf Prize Laureates youth event) link </div> |

Outreach & Service (continued)

- 2021 – 2022  **Editorial Assistant**, Shakuf.
Co-edited climate change and sustainability newsletter HaGahlilit. [link](#)
- 2020  **Outreach article**, Future Scientists Center.
From the Imagination, through the Pen, to the Machine: Forecasting and Understanding the Weather. [link](#)
- 2020 – 2021  **Reviewer and Content Writer**, ClimateScience.
Reviewed educational content and contributed outreach articles [link](#)
- 2019  **Guest Speaker**, Future Scientists Center.
Talk: *"The Elevation of Man over the Spirit (also 'Wind' in Hebrew): Weather Forecasting"*