

# 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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1029/2018GL080363).

## Fellowships and Awards

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

## Outreach & Service

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

## **Outreach & Service (continued)**

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- 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*"