

## Curriculum Vitae

### Shira Raveh-Rubin

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**Date and Place of Birth:** 12 May 1980, Jerusalem, Israel  
**Citizenship:** Israeli  
**Military service:** January 1999 – January 2001  
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### EDUCATION

- 2007-2012 PhD, Department of Environmental Sciences and Energy Research, Weizmann Institute of Science  
Thesis title: *Anomalous, non-conservative chemical transport in saturated porous media.*  
Advisor: Prof. Brian Berkowitz
- 2004-2006 M.Sc. in Atmospheric Sciences, the Hebrew University of Jerusalem, *cum laude*  
Thesis title: *Characterizing Tropical Plumes over eastern North Africa that transport moisture to the eastern Mediterranean and Israel.*  
Advisors: Prof. Nathan Paldor and Dr. Baruch Ziv
- 2001-2004 B.Sc. in Atmospheric Sciences (major) and Physics (minor), the Hebrew University of Jerusalem, *cum laude*

### EMPLOYMENT HISTORY

- 2017-present Senior scientist, Department of Earth and Planetary Sciences, Weizmann Institute of Science
- 2012-2017 Post-doctoral fellow, Institute for Atmospheric and Climate Science, ETH Zurich. Host: Prof. Heini Wernli
- 2004 Research assistant of Dr. Baruch Ziv, Department of Natural Sciences, the Open University of Israel
- 2002-2004 Research assistant of Prof. Nathan Paldor, Department of Atmospheric Sciences, the Hebrew University of Jerusalem

### TEACHING EXPERIENCE

- 2022-present Lecturer, Weizmann Institute of Science  
Graduate course: Dynamical meteorology
- 2016 Guest lecturer, ETH Zurich

Graduate course: Dynamics of large-scale atmospheric flow

- 2004-2006 Teaching assistant, department of atmospheric sciences, the Hebrew University of Jerusalem  
Undergraduate courses: Introduction to climatology, Physical oceanography, Climate changes, Earth as a planet (in Hebrew)
- 2017-present Outreach lectures in schools and the open public: De-Shalit Rehovot, Bechor Levi Rehovot, Hashita highschool Rehovot, JFS London, American School in London, Alpha, Ofakim, Madan Bareshet programmes, Davidson Institute, 1.5°C Climate Initiative (Hebrew University), Big Little Science (“Mada Gadol, Baktana”), Academic community for Israeli Society (“BaShaar”), the Israel Young Academy, Haaretz newspaper

## INTERNATIONAL RECOGNITION

- 2020-present Working group leader, management committee member and short-term scientific missions evaluation committee member, COST Action CA19109: European network for Mediterranean cyclones in weather and climate
- 2020-present Member of AcademiaNet
- 2019-present Co-editor of the journal Weather and Climate Dynamics (WCD), Copernicus Publishing, European Geosciences Union (EGU)
- 2014-present Reviewer of manuscripts for scientific journals: *Annales Geophysicae*, *Atmosphere*, *Atmospheric Science Letters*, *Climate Dynamics*, *Earth System Dynamics*, *Earth System Science Data*, *Geophysical Research Letters*, *Hydrology and Earth System Sciences*, *International Journal of Climatology*, *Journal of Geophysical Research – Atmospheres*, *Meteorology and Atmospheric Physics*, *Natural Hazards and Earth System Sciences*, *Quarterly Journal of the Royal Meteorological Society*, *Quaternary Science Reviews*, *Weather and Climate Dynamics*
- 2018-2022 Task team member of the High-Impact Weather Project of the World Weather Research Programme (WWRP), World Meteorological Organization (WMO)
- 2021 Reviewer for the US National Science Foundation
- 2021 Reviewer of a course book “Meteorology lab: measurements, observations” (20421), The Open University of Israel
- 2013-2020 HyMeX (HYdrological cycle in the Mediterranean EXperiment), member of the science teams: Sources and Transport of Water Vapour, Heavy Precipitation, Mediterranean Cyclones
- 2017 Judge for the Outstanding Student Poster Award, EGU
- 2012 Otto Schwarz Memorial Graduate Scholarship, Weizmann Institute of Science
- 2010-2011 Ministry of Science and Technology excellence fellowship for the advancement of women in science
- 2008, 2011 Rieger-JNF Fellowship for Environmental Studies
- 2005 Schindel Prize for excellence in M.Sc. research from the Atmospheric Sciences department, the Hebrew University of Jerusalem
- 2001 Excellence award for new students, Earth Sciences Institute, the Hebrew University of Jerusalem

## CONFERENCES

### Invited talks

TBA (*IUGG23: The 28<sup>th</sup> general assembly of the international union of geodesy and geophysics, Berlin, Germany, 11-20 July 2023*)

TBA (*MetMed: 9th International Conference on Meteorology and Climatology of the Mediterranean, Genoa, Italy, 22-24 May 2023*)

Process understanding of extreme weather events: the local and non-local role of extratropical cyclones (*"Rare events in Physics and Climate" international conference, Sde Boker, Israel, 12 December 2022*)

Dynamics of dry intrusion air streams and their relevance for extreme weather (**keynote**, *European Meteorological Society Annual Meeting, Bonn, Germany, 8 September 2022*)

The importance of cyclones for heavy precipitation in the Mediterranean (*Israel-Italy Scientific Workshop "Mediterranean Climate: Changes and Challenges", Tel Aviv, Israel, 5 November 2019*)

Climatology and dynamics of the link between dry intrusions and cold fronts (*European Geosciences Union General Assembly, Vienna, Austria, 9 April 2019*)

Wind: the journey of air on Earth (*The Israel Academy of Sciences and Humanities annual meeting, Jerusalem, Israel, 4 February 2019*)

Current challenges in understanding and predicting storms (*Fluid flows, from Graphene to planet atmospheres, International workshop, Weizmann Institute of Science, 19 December 2018*)

Understanding the weather (*5th How To Change the World Conference, London, UK, 6 December 2018*)

The relevance of dry-air intrusions for high-impact weather (*High-Impact Weather Workshop, WMO, Beijing, China, 21 November 2018*)

The dynamical and thermodynamical links between North Atlantic cyclones and Mediterranean cyclones (*Stormtracks 2018 workshop, Utö, Stockholm, Sweden, 29 August 2018*)

Climatology of dry air intrusions and their relation to strong surface winds in extratropical cyclones (**keynote**, *5th European storms workshop STORMEx, Bern, Switzerland, 31 August 2015*)

Anomalous, non-conservative chemical transport in saturated porous media. (*Research conference of the Israeli Water Authority, Maale Hahamisha, Israel, 21 June 2011*)

### Contributed talks

The role of cyclones for persistent warm and dry extremes in the Eastern Mediterranean (*JSPS - ISF (Japan - Israel) Symposium in Atmospheric Dynamics and Climate, Weizmann Institute of Science, Rehovot, Israel, 27 November 2022*)

Understanding weather extremes for improving impact prediction – an international effort (*combined oral/poster presentation, MaltaX conference: Frontiers of Science, Malta, 7 November 2022*)

North Atlantic Waveguide, Dry Intrusion, and Downstream Impact Campaign: updates and state of the art (*Atmospheric River Reconnaissance Workshop 2022, Scripps Seaside Forum, La Jolla, CA, USA, virtual, 26 October 2022*)

The role of Mediterranean cyclones for persistent warm and dry extremes over the Eastern Mediterranean during winter (*1<sup>st</sup> MedCyclones Workshop, Athens, Greece, 29 June 2022*)

The link between Rossby-wave breaking, cyclones, severe winds and air-sea interaction: the case of the Mistral wind (*Stormtracks2022: Midlatitude storm-tracks workshop, Saint-Pierre-d'Oleron, France, 31 May 2022*)

Persistent warm and dry extremes over the Eastern Mediterranean during winter: the role of upstream Rossby wave pattern (*European Geosciences Union General Assembly, Vienna, Austria, virtual, 27 May 2022*)

Dry air intrusions link Rossby wave breaking to large-scale dust storms in North Africa (*European Geosciences Union General Assembly, Vienna, Austria, virtual, 23 May 2022*)

Persistent dry and warm winter events over Israel and their relation to Atlantic and Mediterranean cyclones (*Mediterranean Cyclones: Dynamics, Impact and Prediction at Weather and Climate Scales conference, virtual, 3 January 2022*)

The importance of a series of Rossby wave breaking for dust transport near Mediterranean cyclones (*1st Meeting on Mediterranean Cyclones and Aerosol, Lecce, Italy, virtual, 20 September 2021*)

Dry intrusions: State of the art and open questions for NAWDIC (*NAWDIC Workshop, virtual, 23 November 2020*)

The influence of dry intrusions on the lower troposphere, boundary layer and ocean surface (*First virtual conference on atmospheric dynamics ViCoDyn1, virtual, 16 June 2020*)

Climatology and dynamics of the link between dry intrusions and cold fronts (*19<sup>th</sup> Cyclone Workshop, Kloster Seon, Germany, 30 September 2019*)

The influence of dry intrusions on the PBL: Insights from a global Lagrangian climatology and relevance for ACE-ENA (*ACE-ENA Workshop, Brookhaven National Lab, NY, USA, 30 January 2019*)

The dynamical link between North Atlantic cyclones and intense Mediterranean cyclones (*GFDdays workshop, Sde Boker, Israel, 23 January 2019*)

The importance of Atlantic cyclones for intense Mediterranean cyclones (*11<sup>th</sup> HyMeX Workshop, Lecce, Italy, 31 May 2018*)

Climatology and dynamics of the link between dry intrusions and cold fronts (*Israel Meteorological Society annual meeting, Hebrew University in Jerusalem, 13 March 2018*)

Dry intrusions and their role for intense ocean evaporation and for triggering severe surface weather (*Bilateral meeting on Warm Conveyor Belts, ECMWF, Reading, UK, 23 May 2017*)

Dry intrusions: Lagrangian climatology and impact on the boundary layer (*European Geosciences Union General Assembly, Vienna, Austria, 26 April 2017*)

Initiative: Frontal heavy precipitation events – dynamical mechanism and moisture pathways (*HyMeX Mediterranean Cyclones science-team meeting, Paris, France, 10 March 2017*)

Dry air intrusions: climatology and their relevance for strong surface winds (*15<sup>th</sup> Plinius Conference on Mediterranean Risks, Giardini Naxos, Italy, 9 June 2016*)

The role of Mediterranean cyclones for producing large-scale precipitation extremes (*15<sup>th</sup> Plinius Conference on Mediterranean Risks, Giardini Naxos, Italy, 8 June 2016*)

Climatology of dry air intrusions and their relation to strong surface winds in extratropical cyclones (*17<sup>th</sup> Cyclone Workshop, Pacific Grove, CA, USA, 29 October 2015*)

Large-scale surface wind extremes in the Mediterranean (*4<sup>th</sup> European storms workshop STORMEx, Lisbon, Portugal, 8 September 2014*)

Large-scale surface wind extremes in the Mediterranean (*WWRP Open Science Conference, Montreal, Canada, 20 August 2014*)

Governing mechanisms of large-scale precipitation extremes – COSMO sensitivity experiments (*Swiss COSMO user workshop, MeteoSwiss, Zurich, Switzerland, 27 November 2013*)

The role of Mediterranean cyclones for producing large-scale precipitation extremes (*7<sup>th</sup> HyMeX Workshop, Cassis, France, 10 October 2013*)

The role of Mediterranean cyclones for producing large-scale precipitation extremes (*16<sup>th</sup> Cyclone Workshop, Sainte-Adele, Canada, 24 September 2013*)

## **Posters**

The dynamical link between deep Atlantic extratropical cyclones and intense Mediterranean cyclones (*Climate and Wave Dynamics workshop, Eilat, Israel, 23 September 2019*)

The meteorological context of moisture uptakes for frontal precipitation during HyMeX (*11<sup>th</sup> HyMeX Workshop, Lecce, Italy, 31 May 2018*)

The dynamical link between deep Atlantic extratropical cyclones and intense Mediterranean cyclones (*Israel Meteorological Society annual meeting, Hebrew University in Jerusalem, 13 March 2018*)

Large-scale precipitation and surface wind extremes in the Mediterranean (*European Geosciences Union General Assembly, Vienna, Austria, 28 April 2017*)

The dynamical link between deep Atlantic extratropical cyclones and intense Mediterranean cyclones (*European Geosciences Union General Assembly, Vienna, Austria, 26 April 2017*)

Large-scale surface wind extremes in the Mediterranean (*Swiss Meteorological Society annual meeting, ETH Zurich, Switzerland, 25 November 2016*)

Large-scale surface wind extremes in the Mediterranean (*15<sup>th</sup> Plinius Conference on Mediterranean Risks, Giardini Naxos, Italy, 9 June 2016*)

Large-scale surface wind extremes in the Mediterranean (*Latsis Symposium, Zurich, Switzerland, 18 June 2014*)

Characteristic dynamics of large-scale wind and precipitation extremes in the Mediterranean (*C2SM Water Cycle in a Changing Climate Symposium, ETH Zurich, Switzerland, 1 July 2013*)

Experimental and modeling analysis of coupled non-Fickian transport and sorption in natural soils (*AGU meeting, San Francisco, USA, 5-9 December 2011*)

Anomalous, non-conservative chemical transport in saturated porous media (*Gordon Research Conference, Lewiston, ME, USA, 11-16 July 2010*)

Characterization of Tropical Plumes that transport humidity from the Tropics to the eastern Mediterranean over Africa (*EGU conference, Vienna, Austria, April 2005*)

### **Invited seminars**

TBD (*upcoming Free University of Berlin, Germany, 10 July 2023*)

TBD (*upcoming Israel Meteorological Service, Bet Dagan, Israel, 1 February 2023*)

TBD (*upcoming Climate, Atmosphere, and Ocean Seminar, Hebrew University of Jerusalem, Israel, 26 January 2023*)

The role of dry intrusions in large-scale Saharan dust transports and air-sea interaction, (*Department of Meteorology MISU seminar, Stockholm University, 19 May 2022*)

Large-scale Saharan dust transport or hot winter days: new insight from a Lagrangian perspective (*Geological Survey of Israel seminar, Jerusalem, Israel, virtual, 6 March 2022*)

The link between planetary boundary layer characteristics and extratropical weather systems (*Environmental Engineering Departmental Seminar, Technion, Israel, 23 November 2021*)

The link between planetary boundary layer characteristics and extratropical weather systems (*Climate, Atmosphere, and Ocean Seminar, Hebrew University of Jerusalem, Israel, virtual, 13 May 2021*)

The link between planetary boundary layer characteristics and extratropical weather systems during winter (*Institute of Soil, Water and Environmental Science seminar, Volcani Center, Israel, virtual, 17 February 2021*)

How does synoptic-scale descent influence the planetary boundary layer? (*LMD Seminar, École Polytechnique, Paris, France, 28 November 2019*)

The link between dry air intrusions and frontal precipitation and winds (*Ludwig Maximilian University of Munich, Waves to Weather seminar, Munich, Germany, 16 May 2019*)

The link between dry air intrusions and frontal precipitation and winds (*Karlsruhe Institute of Technology, IMK-TRO, Waves to Weather seminar, Karlsruhe, Germany, 14 May 2019*)

The link between dry air intrusions and frontal precipitation and winds (*Institute for Atmospheric Physics, University of Mainz, Mainz, Germany, 13 May 2019*)

The role of dry air intrusions in frontal precipitation and winds (*The Interuniversity Institute for Marine Sciences in Eilat, Israel, 17 January 2019*)

The role of dry air intrusions in frontal precipitation and winds (*Department of Solar Energy and Environmental Physics, Institute for Desert Research, Ben-Gurion University, Israel, 11 December 2018*)

The importance of warm conveyor belts for Mediterranean cyclones (*Department of Geosciences, Tel Aviv University, Israel, 19 March 2018*)

Dry air intrusions: climatology and their relevance for extreme weather (*Institute of Geography, University of Bern, Bern, Switzerland, 13 December 2017*)

Dry air intrusions: climatology and their relevance for strong surface winds in the Euro-Mediterranean region (*Israel Meteorological Service, Bet Dagan, Israel, 22 November 2017*)

Dry intrusions and warm conveyor belts: feature-based climatologies for understanding extratropical weather dynamics (*Department of Earth and Planetary Sciences, Weizmann Institute of Science, Israel, 4 January 2017*)

Dry air intrusions: climatology and their relevance for strong surface winds in the Euro-Mediterranean region (*Institute of Earth Sciences, Hebrew University of Jerusalem, Israel, 9 November 2016*)

Dry air intrusions: climatology and their relevance for strong surface winds in the Euro-Mediterranean region (*Department of Geosciences, Tel Aviv University, Israel, 7 November 2016*)

Dry air intrusions: climatology and their relevance for strong surface winds in the Euro-Mediterranean region (*Faculty of Civil and Environmental Engineering, Technion, Israel, 28 June 2016*)

Dry air intrusions: climatology and their relevance for strong surface winds in the Euro-Mediterranean region (*Department of Earth and Planetary Sciences, Weizmann Institute of Science, Israel, 27 December 2015*)

Anomalous, non-conservative chemical transport in saturated porous media. (*Environmental Health Sciences seminar, Hadassah College, Jerusalem, Israel, December 2010*)

### **Participation in organizing conferences and service**

2022-present Member of the Hiring committee, Department of Earth and Planetary Sciences, Weizmann Institute of Science

2022-present Member of the Green Campus presidential committee, Weizmann Institute of Science

2021-present Member of the Board of Studies, Faculty of Chemistry, Weizmann Institute of Science

2020-present Member and working group leader of the Gender Equality Together forum, Weizmann Institute of Science

2018-present Examination committee member for M.Sc. and PhD theses submitted to the Weizmann Institute of Science, Tel-Aviv University, Hebrew University of Jerusalem, Technische Universität Bergakademie Freiberg

2023 Co-Convener of the session “UP1.1: Atmospheric dynamics, predictability and extremes”, European Meteorological Society Annual Meeting, 3-8 September 2023, Bratislava, Slovakia

2023 Co-organizer of the 2<sup>nd</sup> MedCyclones Workshop and Training School, 26-30 June 2023, Toulouse, France

- 2022 Organizer of the pre-SAAC symposium on Earth and Planetary Sciences, 23 October 2022, Weizmann Institute of Science
- 2022 Co-organizer of the 1<sup>st</sup> MedCyclones Workshop and Training School, 27 June - 2 July 2022, Athens, Greece
- 2022 Lead organizer of the conference “Mediterranean Cyclones: Dynamics, Impact and Prediction at Weather and Climate Scales” (virtual), 3 January 2022
- 2017-2021 Co-organizer of the weekly seminar series of the Department of Earth and Planetary Sciences, Weizmann Institute of Science
- 2020 Co-organizer of the first North Atlantic Waveguide, Dry Intrusion, and Downstream Impact Campaign (NAWDIC) workshop (virtual), 23-24 November 2020
- 2019 Co-organizer of the Israel-Italy Scientific Workshop “Mediterranean Climate: Changes and Challenges”, Tel Aviv, Israel, 5 November 2019
- 2019 Co-organizer of an international workshop “Climate and Wave Dynamics”, Eilat, Israel, 22-26 September 2019
- 2019 Organizer of a symposium on “The atmospheric water cycle: underlying processes and future projections”, Department of Earth and Planetary Sciences, Weizmann Institute of Science, 5 May 2019
- 2018 Convener and chair of the session “Understanding weather extremes“, ISEES Annual Conference for Science and the Environment, Weizmann Institute of Science, 20-21 June 2018
- 2018 Session chair in the 11<sup>th</sup> HyMeX Workshop, Lecce, Italy, 30 May 2018
- 2007 Co-organizer and session chair, the 6<sup>th</sup> Conference on Active Research by Environmental Science Students (CARESS), Weizmann Institute of Science, 29 May 2007

## SCIENTIFIC PRODUCTIVITY

### Research grants

- 2022-2027 European Research Council starting grant: “Extratropical-Tropical interaction (ExTrA): A unified view on the extratropical impact on the subtropics and tropics at weather timescales” (1,687,500 US\$)
- 2022-2024 Weizmann-ETH Zurich Bridge Program: “The role of jet dynamics in shaping midlatitude storm tracks, regional climate change and weather extremes” (75,000 US\$)
- 2022-2024 Data Science Research Center, VATAT (59,270 US\$)
- 2022-2023 Swiss National Science Foundation: “Compound weather events associated with Mediterranean Cyclones - climatology and large-scale climate drivers (COMPOUND-MED)”, project partner
- 2020-2021 Data Science Research Center, VATAT (12,330 US\$)
- 2020-2022 Weizmann-UK Joint Programme: “Life cycle of atmospheric fronts, associated circulation and impact” (50,000 US\$)

2020-2021	German-Israeli Foundation Young Scientists' Program Grant I-1087-307.6-2018: "Dry intrusions role in the Earth's water cycle" (28,649 US\$)
2019-2022	Weizmann-CNRS Collaboration Program: "The Mistral wind: large-scale controlling mechanisms and impact on air-sea interaction" (88,400 US\$)
2018-2022	Israel Science Foundation, Individual Research Grant 1347/18: "Multi-scale dynamical interactions of dry intrusions" (218,500 US\$)
2018	Israel Science Foundation, New-Faculty Equipment Grant 2179/18 (259,700 US\$)
2015-2017	Marie Heim-Vögtlin grant, Swiss National Science Foundation: "Dry intrusions: climatology, dynamics and link to extreme weather" (255,000 US\$)
2012-2014	ETH Zurich Postdoctoral Fellowship (Co-funded by Marie Curie actions): "Governing mechanisms of large-scale strong winds and heavy precipitation in the Mediterranean region" (200,000 US\$)
2009-2011	Israel Water Authority research grant: "Anomalous transport of sorbing solutes in saturated porous media" (28,000 US\$)

## **Supervision of students**

### Ongoing

#### *Post-doctoral fellows*

- Pinelopi Loizou, 2023-present

#### *PhD students*

- Yonatan Givon, 2019-present

#### *MSc students*

- Noy Klaider, 2021-present
- Tsruya Yaari, 2021-present

#### *Visiting students (rotation or short-time stays)*

- Tali Gens, 2022-present

### Completed

#### *Post-doctoral fellows*

- Eyal Ilotoviz, 2021, WIS
- Vered Silverman, 2021, WIS
- Leehi Magaritz-Ronen, 2021, WIS
- Deepika Rai, 2022, WIS

#### *MSc theses*

- Stav Nahum, 2021, WIS: “Dry Intrusions Initiation: Large scale governing features and forcing mechanisms”; main supervisor.
- Matthias Jeker, 2014, ETH Zurich. “Governing mechanisms of a selected large-scale heavy precipitation event in the Mediterranean”; co-supervisor with Heini Wernli.

#### *BSc theses*

- Katharina Hartmuth, 2017, ETH Zurich. “The initiation of dry air intrusions”; main supervisor.
- Lea Beusch, 2015, ETH Zurich. “Puelche Foehn - A Case Study”; co-supervisor with Lukas Papritz and Michael Sprenger.
- Yasmin Rosskopf, 2014, ETH Zurich. “A case study of a heavy precipitation event in southwestern Mediterranean, September / October 1986”; main supervisor.

#### *Visiting students (rotation)*

- Shahar Hegyi, 2018, Weizmann Institute of Science. “The global relationship between dry intrusions and boundary layer height anomalies”.
- Tsuf Lichtman, 2018, Weizmann Institute of Science. “The contribution of dry intrusions to ocean evaporation hot spots”.
- Eli Windwer, 2019, Weizmann Institute of Science. “The dynamical links between cyclone Dagmar and its clustered cyclones”.
- Oz Mendelsohn, 2020, Weizmann Institute of Science. “Machine-learning based classification of radiosonde profiles and their regional signature”.
- Elizabeth Ruth Shehter, 2021, Weizmann Institute of Science. “Predictability of heavy precipitation under active Red Sea Trough in Israel”.
- Erez Aviv, 2021, Weizmann Institute of Science. “Linking inter-hemispheric flows to active and break monsoon spells in India”.
- Or Hess, 2022, Weizmann Institute of Science. “Classification of Mediterranean cyclones by potential vorticity”.

#### *Visiting scientists*

- Dr. Sigalit Berkovic (IIBR), 2020, mini-sabbatical at WIS
- Vlad Amihaesei (University of Iasi, Romania), 2022, Short-term scientific mission to WIS

#### **Collaborators**

2012-present Heini Wernli, ETH Zurich, Switzerland

2013-present Emmanouil Flaounas, Hellenic Centre for Marine Research, Athens, Greece

2015-present Jennifer Catto, University of Exeter, UK

2019-present Virendra Ghate, Argonne National Lab, US

2019-present Philippe Drobinski, École Polytechnique, CNRS, Paris, France

2019-present Christian Grams, Karlsruhe Institute of Technology, Germany

2022-present Olivia Romppainen-Martius, University of Bern, Switzerland