

# Curriculum Vitae

## Shlomit Sharoni (January 2024)

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and Planetary Science, MIT.  
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### Education

- **PhD, Weizmann Institute of Science (2015–2020)**  
Advisor: Prof. Itay Halevy
  - **MSc, Weizmann Institute of Science (2012–2014)**  
Advisors: Prof. Ilan Koren and Prof. Assaf Vardi
  - **BSc, Hebrew University (Chemistry) (2009–2011)**
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### Professional Experience and Appointments

- **Rothschild, Fulbright and Simons Postdoctoral Fellow**  
*Massachusetts Institute of Technology (MIT), Department of Earth, Atmospheric, and Planetary Science (2022–present)*
  - **Postdoctoral Fellow**  
*Department of Marine Geosciences, Haifa University (2021)*
  - **Research assistance**  
*Prof. Dan Yakir group, Weizmann Institute of Science (2012)*
  - **Research assistance**  
*Prof. Yoel Sasson's laboratory, Chemistry Department, Hebrew University (2011)*
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### Awards and Honors

- **Simons Postdoctoral Fellowship (2023–2026)**
- **European Molecular Biology Organization (EMBO) Postdoctoral Fellowship (2023–2025, declined)**
- **Rothschild Postdoctoral Fellowship (2022–2023)**
- **Fulbright Postdoctoral Fellowship (2022–2023)**
- **Outstanding Reviewer Award, Communications Earth & Environment (2021)**
- **Postdoctoral Fellowship, Data Science Research Center, Haifa University (2020–2021)**
- **Best Poster Award, Annual Conference for Science and the Environment (Rehovot, Israel) (2018)**
- **Best Oral Presentation Award, Israeli Association of Aquatic Sciences (Haifa, Israel) (2017)**
- **Pearlman Grant, Faculty of Chemistry Award (Weizmann Institute of Science, Israel) (2017)**
- **Rieger Foundation U.S.A. Environmental Studies Fellowship Program (2016–2017)**
- **Best Oral Presentation, SOLAS Workshop and Conference (Xiamen, China) (2013)**
- **Best Poster Award, SOLAS Workshop and Conference (Xiamen, China) (2013)**

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## Publications

1. Dikstein T., Antler G., Pellerin A. **Sharoni S.**, Frada M. J. *Emiliana huxleyi* virus arrests host calcification and nutrient consumption, and triggers shifts in organic stoichiometry. (Under Review)
2. **Sharoni S.** and Halevy I., (2022) *Rates of seafloor and continental weathering govern Phanerozoic marine phosphate levels*. Nature Geoscience. [DOI: 10.1038/s41561-022-01075-1]
3. **Sharoni S.** and Halevy I., (2021) *Geologic controls on phytoplankton elemental composition*. PNAS, 119 e2113263118.
4. Crockford P., Kunzmann M., Blattler C., Kalderon-Asael B., Murphy J., Ahm A.S., **Sharoni S.**, Halverson G., Planavsky N., Halevy I., and Higgins J., (2020) *Reconstructing Neoproterozoic seawater chemistry from early diagenetic dolomite*. Geology, 49 (4): 442–446.
5. **Sharoni S.** and Halevy I., (2020) *Nutrient ratios in marine particulate organic matter are predicted by the population structure of well-adapted phytoplankton*. Science Advances, (6)eaaw9371.
6. Trainic M., Koren I., **Sharoni S.**, [...] and Vardi A., (2018) *Infection dynamics of a bloom-forming alga and its virus determine airborne coccolith emission from seawater*. iScience, (6)327-335.
7. Lehahn Y., Koren I., **Sharoni S.**, O'dovido F., Boss E., (2017) *Dispersion/dilution enhances phytoplankton blooms in low-nutrient waters*. Nature Communications, (8)14868.
8. **Sharoni S.**, Trainic M., Schatz D., Lehahn Y., Flores M., Ben Dor S., Rudich Y., Koren and Vardi A., (2015) *Infection of bloom-forming phytoplankton by aerosolized marine viruses*. PNAS, (112)6643-6647.
9. Lehahn, Y., [...], **Sharoni S.**, and Vardi A., (2014) *Decoupling oceanic and atmospheric factors affecting aerosol loading over a cluster of mesoscale North Atlantic eddies*. Geophysical Research Letters, (41)4075–4081.
10. Lehahn, Y., Koren I., Schatz D., Frada M, Sheyn U., Boss E., Efrati S., Rudich Y., Trainic M., **Sharoni S.**, [...], Vardi A., (2014) *Decoupling physical from biological processes to assess the impact of viruses on a mesoscale algal bloom*. Current Biology, (24)2041–2046. Highlighted in: Nature (2014) 512, 351.

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## Conference and Workshops Proceedings

- **Ocean Science Meeting (AGU)** (2024, New Orleans, USA) – Oral presentation
- **Israeli Association for Aquatic Sciences** (2024, Tel Aviv, Israel) – Invited speaker
- **Trait-based Approaches to Ocean Life** (2023, Copenhagen, Denmark) – Oral presentation
- **The CBIOME Annual Meeting** (2023, NY, USA) - Poster Presentation
- **Ocean Carbon & Biogeochemistry (OCB) Workshop** (2023, Woods Hole, USA) - Poster Presentation
- **CBIOMES Workshop on Diel Process** (2023, Boston, USA)
- **Trait-based Approaches to Ocean Life** (2022, Virtual Conference) - Poster Presentation
- **Adaptive Modelling of Dynamic Traits Workshop** (2021, Virtual Workshop, GEOMAR)
- **Israeli Association for Aquatic Sciences** (2021, Virtual Conference) - Poster Presentation
- **Trait-based Approaches to Ocean Life** (2019, Buckinghamshire, UK) - Poster Presentation
- **Gordon Marine Microbes** (2018, Lucca, Italy) - Poster Presentation
- **Urbino Summer School for Paleoclimate (USSP) Workshop** (2016, Urbino, Italy)
- **Young Female Leaders in Science Workshop (YFLIS)** (2016, Tzuba, Israel) - Weizmann Institute Female PhD Students

- **Conference and Workshop on Ecological Modeling** (2014, Marrakech, Morocco)
  - **SOLAS Symposium** (2014, Weizmann Institute of Science) - Poster Presentation
  - **Israeli Association for Aquatic Sciences** (2014, Israel) - Oral Presentation
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## Oceanographic Campaigns

- **RV/KNORR 207–NA-VICE**  
*Ponta Delgada (Acores, Portugal) – Reykjavik (Iceland), June–July 2012*  
Chief Scientist: Kay D. Bidle (Rutgers University)
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## Invited Seminars

- **Rutgers University, Department of Marine and Coastal Sciences** (2023)
  - **Simons Collaboration on Computational Biogeochemical Modeling of Marine Ecosystems (CBIOMES) Meeting** (2023)
  - **Woods Hole Oceanographic Institution, Department of Marine Chemistry and Geochemistry** (2023)
  - **Interuniversity Institute for Marine Sciences, Israel** (2021)
  - **Haifa University, Department of Marine Geosciences** (2020)
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## Academic Services

- **Reviewer**  
*Science Advances, Progress in Oceanography, Nature Reviews Earth & Environment, Nature Communications Earth & Environment*
  - **Co-initiator**  
*PhD Chemistry Women Forum, Weizmann Institute of Science (2015)*
  - **Co-organizer**  
*EPScon (Earth and Planetary Sciences Conference), Weizmann Institute of Science (2013, 2015, 2017)*
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## Volunteer Activities

- **"Perah" Project**  
*Mentored children from underprivileged backgrounds*
- **Mentoring Refugee Children**  
*Provided mentorship in mathematics*
- **Aerial Acrobatics Workshops**  
*Provided workshops for refugee children*
- **Aerial Acrobatics Shows**  
*Performed in shows at a boarding school*