

ALON SHEPON

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EDUCATION & ACADEMICS

- 10/18 - **HARVARD TH CHAN SCHOOL OF PUBLIC HEALTH, Boston, USA.**
Postdoc fellowship under the supervision of [Prof. Christopher Golden](#).

Quantifying the **environmental burdens and nutritional contribution of fisheries in developing countries towards nutrition-sensitive aquaculture.**
- 12/17 -10/18 **WEIZMANN INSTITUTE OF SCIENCE, Department of Environmental Sciences, Rehovot, Israel.**
Postdoc under the supervision of [Prof. Ron Milo](#).
- 1/14 – 12/17 **WEIZMANN INSTITUTE OF SCIENCE, Department of Environmental Sciences, Rehovot, Israel.**
PhD under the supervision of [Prof. Ron Milo](#).

Specializing in **environmental burdens of the food system, sustainable agriculture, livestock production and nutrition.**
Thesis title: "Quantifying the environmental costs of food products in the US".

My research focuses on understanding the environmental burdens of the current US food system and its relations to dietary preferences, and contributes to the growing efforts to direct policies towards increased sustainability and food security.
- 9/03 – 3/06 **WEIZMANN INSTITUTE OF SCIENCE, Department of Environmental Sciences, Rehovot, Israel.**
M.Sc. under the supervision of Prof. Hezi Gildor.
Specializing in **Oceanography** and **Climate Dynamics** with connection to Biological interactions.
Thesis title: "Investigating the biota-lightning climatic feedback".

My research focused on understanding a climatic feedback cycle, which involves terrestrial and oceanic biology and their coupled relation with climate.
- 9/98 - 7/01 **HEBREW UNIVERSITY, Department of Physics, Jerusalem, Israel.**
B.Sc. Degree in **Physics**, with supplementary courses in Chemistry and Applied Physics.

PROFESSIONAL WORK EXPERIENCE

- 2/14 – **THE ISRAELI FORUM FOR SUSTAINABLE NUTRITION** (www.ifs.org.il), founder, chairperson.
A consumer advocacy organization promoting **sustainable food systems** through establishing scientific understanding on the multidisciplinary issues pertaining to food and contributing to policymakers to formulate national policies and regulations.
- 4/09- 1/14 **WEIZMANN INSTITUTE OF SCIENCE, Department of Environment and Plant Sciences, Rehovot, Israel.**
Research Assistant in Prof. [Ron Milo](#)'s Lab.
Working on issues in the **science of sustainability**, specializing in **sustainable agriculture and food systems, sustainability indicators, life cycle assessment (LCA), industrial ecology, and ecological economics.**

I have tutored a course in alternative energy, life cycle, sustainability and energy analysis.

- 1/07 - 2/13 **BUSTAN NGO**, Be'er Sheva, Israel.
This NGO has worked together with the indigenous **Bedouin** population on issues of sustainable development, community empowerment, energy, and permaculture in the Negev, the southern region of Israel.
As Deputy Director my responsibilities included **leading strategic planning, NGO management, project coordination and evaluation, and financial management.**
- 4/06 – 1/08 **FRIENDS of THE EARTH**, Tel Aviv, Israel. (www.foeme.org)
Conducted a study on the environmental implications of the water system in Israel by analyzing the prevailing energy use and GHG pollution and recommending a different strategy that will meet Israel's water demands yet with a lower environmental footprint and higher economic viability.
Worked on issues concerning the water budget with connection to desalination and issues relating to the Dead sea and the World bank led initiative - Red-Dead canal.
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- 2/06 – 1/09 **COLLARITY**, Tel Aviv, Israel.
Led a research team of 3 mathematicians to develop algorithms for Collarity's internet search engine focusing on machine learning algorithms and linguistics.
- 8/01 - 4/02 **TRELLIS PHOTONICS**, Jerusalem, Israel.
Member of the Material Research and Development team, specializing in Optical Switching.
Acquired experience: Working in a Laser Optics lab, Labview Programming.
- 9/98 - 7/01 **HEBREW UNIVERSITY**, Jerusalem, Israel.
Research Assistant in the Department of Physical Chemistry under the supervision of Prof. Micha Asher, head of the Chemistry Institute. Constructed an experimental Ultra High Vacuum system and conducted experiments in the field of Surface Science.

TEACHING EXPERIENCE

- 2009-2011 **WEIZMANN INSTITUTE OF SCIENCE, Department of Environment and Plant Sciences**, Rehovot, Israel.
Teaching fellow in the course "sustainable energy alternatives" by Prof Ron Milo and Prof David Cahen

PUBLICATIONS

1. **Shepon, A.**†, Henriksson, P., Tong, W., 2018. Conceptualizing a sustainable food system in an automated world: towards a "Eudaimonian" future. *Frontiers in Nutrition*, Special issue on food insecurity, 5, 104, <https://doi.org/10.3389/fnut.2018.00104>. IF=n/a
2. Hamann, M.†, ...**Shepon, A.**, Tilman, A., Wu, T., 2018. Inequality and the Biosphere. *Annual Reviews of Environment and Resources*, 43, 61-83. IF= 6.0
3. **Shepon, A.**, Eshel, G., Noor, E., Milo, R.†, 2018. The opportunity costs of animal based foods exceeds all food losses. *Proceedings of the National Academy of Sciences of the U. S. A.*, 115, 15, 3804-3809 <https://doi.org/10.1073/pnas.1713820115>. IF= 9.6
4. Eshel, G., **Shepon, A.**, Shaket, T., Cotler, B.D., Gilutz, S., Giddings, D., Raymo, M.E., Milo, R.†, 2017. A model for "sustainable" US Beef production. *Nature Ecology & Evolution*, 2, 81-85. IF=n/a
5. Makov, T. †, Meylan, G., Powell, J. T., **Shepon, A.** 2016. Better than bottled water?—Energy and climate change impacts of on-the-go drinking water stations. *Resources, Conservation and Recycling*. IF= 3.3

6. **Shepon, A.**, Eshel, G., Noor, E., and Milo, R.†, 2016. Energy and protein feed-to-food conversion efficiencies in the US and potential food security gains from dietary changes. *Environmental Research Letters*, 11(10). IF= 4.4
7. Eshel, G., **Shepon, A.**, Noor, E., and Milo, R.†, 2016. Environmentally Optimal, Nutritionally Aware Beef Replacement Plant Based Diets. *Environmental Science and Technology*, 50 (15), 8164–8168. IF= 6.2
8. Eshel, G.* , **Shepon, A.***, Makov, T., Milo, R.†, 2014, Land, irrigation water, greenhouse gas and reactive nitrogen burdens of meat, eggs & dairy production in the United States. *Proceedings of the National Academy of Sciences of the U. S. A.* 111, 11996–12001. IF= 9.6
9. Eshel, G.* , **Shepon, A.***, Makov, T., Milo, R.†, 2014, Partitioning United States’ Feed Consumption Among Livestock Categories For Improved Environmental Cost Assessments. *Journal of Agricultural Science, FirstView*, 1–14. IF= 1.3
10. **Shepon, A.**, Israeli, T., Eshel, G., Milo, R.†, 2013, EcoTime—An intuitive quantitative sustainability indicator utilizing a time metric. *Ecological Indicators*, 24, 240-245. IF= 3.9
11. **Shepon, A.** and Gildor, H.†, 2008, The Lightning-Biota Climatic Feedback. *Global Change Biology*, 14, 440-450, doi: 10.1111/j.1365-2486.2007.01501.x. IF= 8.4
12. **Shepon, A.**, Gildor, H., Labrador, L.J., Butler, T., Ganzeveld, L.N. and Lawrence, M.G. †, 2007, Global reactive nitrogen deposition from lightning NOx. *Journal of Geophysical Research*, 112, Art. No. D06304. IF= 3.4

* These authors contributed equally to this publication

† Corresponding author

REPORTS

1. **Shepon A.**, Harper M., Troen A., et al. 2017. Call for action for food security and sustainability in Mediterranean countries. In *Proceedings of a Technical Workshop: Development of Voluntary Guidelines for the Sustainability of the Mediterranean Diet in the Mediterranean Region*. FAO / CIHEAM, pp 97-100. Available at: <http://www.fao.org/3/a-i7557e.pdf>

FELLOWSHIPS & PROGRAMS

1. 8/2017 Beijer Institute of Ecological Economy (Sweden) invited scholar fellowship
2. 2016-2018 Beijer Institute of Ecological Economy (Sweden) Young Scholars Program

AWARDS & GRANTS

1. 2018, Environmental law institute (ELI), Center for Law, Energy & the Environment at UC Berkeley and the Yale School of Forestry and Environmental Studies - Energy, Environment and the Digital economy (\$35).
2. 2017 The Innovative Awards in System Biology, Weizmann Institute of Science (\$5k).
3. 2008-2010 Alternative energy research initiative Weizmann - GeoNumbers: the useful energy, environment and sustainability numbers database & ecoDollars: the environmental cost of products. (\$60K).
4. 2004 Rieger foundation, Jewish National Fund Program for Environmental Studies (\$5K).

INTERNATIONAL RESEARCH COLLABORATION

1. Beijer Institute of Ecological Economy, Sweden.
2. Project on livestock and Environment in China, Chinese Academy of Agricultural Sciences.

LECTURES at CONFERENCES and WORKSHOPS

1. 2018, Yale, USA, Workshop, "Environmental implication of shifting food consumption patterns".
2. 2017, Bonn, Germany, COP23, United Nations Framework Convention on Climate Change, panel in side event: "Food and Climate: sustainable food patterns for climate change mitigation".
3. 2017, Ben Gurion University, Israel, The Geographic Society of Israel, "Connecting the dots between livestock, their environmental burdens, dietary preferences and food security in the US".
4. 2017, Italy, NYU food studies summer program, "Food, Environment and Sustainable food systems".
5. 2016, Yale, USA, Food Symposium, "Connecting the dots between livestock, their environmental burdens, dietary preferences and food security in the US".
6. 2016, Technion, Israel, Water-Soil-Nutrients: Integrated Solutions for Assuring Global Food and Water Security, "Connecting the dots between livestock, their environmental burdens, dietary preferences and food security in the US".

SEMINARS

1. 2017, Volcani Agricultural Research Center, Israel, "Connecting the dots between livestock, their environmental burdens, dietary preferences and food security in the US".
2. 2017, Stockholm Resilience Center, Stockholm, Sweden, "Connecting the dots between livestock, their environmental burdens, dietary preferences and food security in the US".
3. 2017, Faculty of Agriculture, Food and Environment, Rehovot, Israel, "Connecting the dots between livestock, their environmental burdens, dietary preferences and food security in the US".
4. 2017, Tel Aviv University, Israel "Connecting the dots between livestock, their environmental burdens, dietary preferences and food security in the US".
5. 2016, Tel Hai college, Israel, "Connecting the dots between livestock, their environmental burdens, dietary preferences and food security in the US".
6. 2016, University of California, Santa Barbara, USA, "Connecting the dots between livestock, their environmental burdens, dietary preferences and food security in the US".
7. 2016, NYU, USA, "Connecting the dots between livestock, their environmental burdens and food security"

REFERENCES

Upon request.