

## DOR FRIDMAN – CURRICULUM VITAE

### Education and Scientific Training

**2021- Ongoing – Research Scholar** at the Water Security group of the Biodiversity and Natural Resources Program at the International Institute for Applied Systems Analysis (IIASA). Project title: Water Future and Solutions for Israel (WFaS-Israel).

**2016- 2020 – PhD Student** in the department of Geography and environmental development. Ben-Gurion University, Be'er Sheva, Israel. Dissertation subject is: "Biophysical sustainability of food system in a global and interconnected world". Advisor: Dr. Meidad Kissinger

- Courses Mean Grade: 93.26/100.

**2013- 2016 – Master's Degree with honors** from the department of Geography and environmental development. Ben-Gurion University, Be'er Sheva, Israel. Thesis' subject is: "Greenhouse gasses emissions embodied in imports to Israel". Advisor: Dr. Meidad Kissinger

Thesis Grade: 92/100. Final Grade: 93.8/100.

**2009- 2012 – Bachelor Degree with honors** from the department of Economics and the department of Geography and environmental development. Ben-Gurion University, Be'er Sheva, Israel. Final Grade: 91.35/100. Certificate of appreciation from the Geography department.

### Awards and achievements

**2021** – Winning IIASA-Israel competitive post-doctoral scholarship (43,200 Euro).

**2020** - A prize for winning peer-reviewed paper from the faculty of Humanities and Social Sciences (1,500 ILS).

**2019** - A scholarship from Kreitman school for advanced graduate studies (50,000 ILS).

**2015** - A scholarship from the faculty of Humanities and Social Sciences (177,000 ILS).

**2014** – The *Paedagogica* Prize for Academic excellence.

**2013** - The *Milken Institute fellow program* fellowship (85,000 ILS)

### Teaching experience

**2016- 2020 – Ben-Gurion University of the Negev, Be'er Sheva, Israel.**

Lecturer: GIS for urban planners (MA program). Department of Geography and Environmental Development.

**2013- 2014 – Ben-Gurion University of the Negev, Be'er Sheva, Israel.**

Teaching assistant. Department of Geography and Environmental Development.

Courses: Economic geography, Quantitative research methods A, GIS Introduction & Advanced.

### **Voluntary work & Internships**

**2016- 2019 – Ben-Gurion University of the Negev, Be'er Sheva, Israel.**

Committee coordinator. Green Campus.

**2012- 2013 – Milken Institute Fellows Program, Jerusalem, Israel.**

A 10-months program and internship to support Israel's long term decision-making.

Environmental economic fellow. Israel Union for Environmental Defense.

**2009- 2012 – NGO Bustan l'Shalom, Be'er Sheva, Israel.**

Sustainability and community capacity building within the Negev Bedouin.

Intern, employee. "Negev Unplugged Tours" project manager.

### **Languages:**

Hebrew (Mother tongue); English (Fluent); German (Basic).

### **Technical skills and competences:**

- Proficient in R & r-programming, Python.
- Proficient in Arcgis and Qgis.
- Proficient in MS Excel, Word and Power Point.
- High proficiency in HTML 4.0, CSS 3.0. Intermediate proficiency in HTML 5.0 and Javascript (mostly jquery).
- Medium proficiency Grass-GIS.

## LIST OF PUBLICATIONS

### Research publications

#### Peer reviewed journal publications

Fridman, D., Biran, N., and Kissinger, M. (2021). “Beyond blue: An extended framework of blue water footprint accounting”. *Science of the Total Environment*, 777: 146010. DOI: 10.1016/j.scitotenv.2021.146010. (Cited 4 times; IF: 6.55; Journal ranking 22/265; Q1, Environmental Sciences). [Link to article](#).

Fridman, D., Koellner, T., and Kissinger, M. (2021). “Exploring global interregional food system's sustainability using the functional regions typology”. *Global Environmental Change*, 68: 102276. DOI: 10.1016/j.gloenvcha.2021.102276. (Cited 3 times; IF: 10.46; Journal ranking: 4/265; Q1, Environmental Sciences). [Link to article](#).

Fridman, D. and Kissinger, M. (2019). “A multi-scale analysis of interregional sustainability: Applied to Israel's food supply”. *Science of the Total Environment*, 676(1): 524 -534. DOI: 10.1016/j.scitotenv.2019.04.054. (Cited 7 times; IF: 6.55; Journal ranking 22/265; Q1, Environmental Sciences). [Link to article](#).

Kleeman, J., Schröter, M., Bagstad, K. J., Kuhlicke, C., Kastner, T., Fridman, D., Schulp, C. J. E., Wolff, S., Martínez-López, J., Koellner, T., Arnhold, S., Martín-López, B., Marques, A., López-Hoffman, L., Liu, J., Kissinger, M., Guerra, C. A., and Bonn, A. (2020). “Quantifying interregional flows of multiple ecosystem services – a case study for Germany”. *Global Environmental Change*, 61:102051. DOI: 10.1016/j.gloenvcha.2020.102051. (Cited 30 times; IF: 10.46; Journal ranking: 4/265; Q1, Environmental Sciences). [Link to article](#).

Koellner, T., Bonn, A., Arnhold, S., Bagstad, K. J., Fridman, D., Guerra, C. A., Kastner, T., Kissinger, M., Kleemann, J., Kuhlicke, C., Liu, J., López-Hoffman, L., Marques, A., Martín-López, B., Schulp, C. J. E., Wolff, S., and Schröter, M. (2019). “Guidance for assessing interregional ecosystem service flows”. *Ecological Indicators*, 105: 92 -106. DOI: 10.1016/j.ecolind.2019.04.046 . (Authors names are alphabetically ordered; Cited 33 times; IF: 4.23; Journal ranking 61/265; Q1, Environmental Sciences). [Link to article](#).

Fridman, D. and Kissinger, M. (2018). “An integrated biophysical and ecosystem approach as a base for ecosystem services analysis across regions”. *Ecosystem Services*, 31B: 242 -254. DOI: 10.1016/j.ecoser.2018.01.005. (Cited 21 times; IF: 6.33; Journal ranking 24/265; Q1, Environmental Sciences). [Link to article](#)

Fridman, D. and Kissinger, M. (2017). “Interregional carbon accounting – Greenhouse gasses emissions embodied in imports to Israel”. *Ecology & Environment*, (2): 24 -30. (Hebrew publication). [Link to article](#).

### **Submitted manuscripts**

Smolka, G., Kosatica, E., Berger, M., Kissinger, M., Fridman, D., and Koellner, T. (In review). “Domestic water versus imported virtual blue water for agricultural production: A comparison based on energy consumption and related greenhouse gas emissions”. *Environmental Science and Technology*.

Myburgh, S., Kosatica E., Pfister, S., Kissinger, M., Fridman, D., and Koellner, T. (In review). “An integrated biophysical-ecosystem assessment of Israel’s consumption of agricultural crops with respect to embedded virtual water flows”. *Journal of Industrial Ecology*.

### **Manuscripts in preparation**

Fridman, D., Smilovic, M., and Tramberend, S. (In prep.). “Incorporating wastewater reclamation into process based hydrological modeling”.

Fridman, D. and Kahil, T. (In prep.). “Exploring the plausible global use of wastewater in irrigation and its energy implications”.

### **Unrefereed professional publications**

Kissinger, M. Fridman, D., Shtutman, I., Dickler, S., and Zamir, I. (2018). “Israel's reliance on imported ecosystems services”. The INEA- Israel National Ecosystem Assessment.

Shtutman, I. Fridman, D. Kissinger, M. (2018). “Ben-Gurion university carbon footprint project (report no. 1)”.

Fridman, D. (2013). “Performance indicators for waste-policy evaluation: Israel's source separation of household waste”. Report no. 79, *Milken Institute Fellows Program*. (Hebrew publication). [Link to report](#).

Ostrovsky, G. and Fridman, D. (2013). “Source separation of households organic waste in Israel's municipalities – annual report”. *Israel Union for Environmental Defense*. (Hebrew publication).

Fridman, D. and Ostrovsky, G. (2013). “Land-filling taxation on construction and demolition waste: the impacts of an increase in taxation rates on recycling rates – an assessment”. *Israel Union for Environmental Defense*. (Hebrew publication).

## **Academic conferences**

Fridman, D. (2019). “Far from sight far from mind – carbon accounting in a global era”. A presentation given at the 4<sup>th</sup> Israeli committee on climate change, Tel-Aviv art museum, Israel (24/11/2019).

Fridman, D. and Kissinger, M. (2019). “Functional regions – a different perspective on sustainable food systems in an interconnected world”. A presentation given at the 47<sup>th</sup> conference of the Israel society of Ecology and Environmental sciences, Porter school, Tel-Aviv University, Tel Aviv, Israel (20/6/2019).

Fridman, D. and Kissinger, M. (2019). “Functional regions – a different perspective on sustainable food systems in an interconnected world”. A flash talk given at the 4<sup>th</sup> Global Land Program open science meeting, Bern University, Bern, Switzerland (25/4/2019).

Fridman, D. and Kissinger, M. (2018). “Functional regions – a different perspective on sustainable food systems in an interconnected world”. A presentation given at the 59<sup>th</sup> conference of the Israeli Geographical association, Bar-Ilan University, Ramat Gan, Israel (10/12/2018).

Fridman, D. and Kissinger, M. (2017). “A multiple scale analysis as a food systems sustainability research approach”. A presentation given at the 58<sup>th</sup> conference of the Israeli Geographical association, Ben-Gurion University, Be'er Sheva, Israel (18/12/2017).

Kissinger, M. and Fridman, D. (2017). “Integrating imported services into national reports – The Israeli national Ecosystem Services Assessment Experience”. sTeleBES workshop, Leipzig, Germany (25/09/2017).

Fridman, D. and Kissinger, M. (2016). “An interregional approach to food system sustainability – linking biophysical inputs and ecosystem services across regions”. A presentation given at the European ecosystem services conference, Antwerp, Belgium (22/09/2016).

Fridman, D. and Stern, E. (2016). “Evaluation and mapping of scenic roads in Israel”. A presentation given at the IGU applied geography commission meeting, Rhodes, Greece (09/05/2016).

Fridman, D. and Ostrovsky, G. (2013). “Performance indicators for source-separation of households' waste”. A presentation of preliminary results, 5<sup>th</sup> annual recycling conference of the Israeli Union for Environmental Defense (24/06/2013).