Name: Orna Raviv **Date: May-2022**

CURRICULUM VITAE

1. Personal Details

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A. Academic Background

Date (from-to)	Institute	Degree	Area of specialization
1985 -1987	The Technical College of Beer-Sheva	Practical Engineer *	Faculty of Physics/Electro-Optics
1993 -1998	The Open University	B.A.	Faculty of Science
2011-2015	University of Haifa	M.A. *	Faculty of Natural Resources and Environmental Management, focusing on environmental and energy costs and benefits.
2016-2021	University of Haifa	PhD	Interdisciplinary research in environmental economics and ecosystem services valuation

* Graduated with honor

B. Previous Employment

Date (from-to)	Institute	Title	Research Area
1989	Optomic	Lab analyst	Lasers for the vehicles industry
1990-2013	Intel Israel (74)	Data analyst, UX/UI design and project manager of information systems	Information systems, UX/UI, change deployment (partial research, non-academic)
2014-today	University of Haifa	Researcher at the Natural Resources and Environmental Research Center	Environmental economics, ecosystem services, energy and resource management, modeling of LCA, climate change effects, CGE and other.

June-2022 - Today	Neaman Institute, Technion	Researcher	Energy, agriculture and environment

C. Researcher role in the following projects:

Dates	Research area	Role (and focus)
2014-2015	External Costs and Sustainable Development of Energy Systems (Wind energy vs alternative energy sources in Israel)	Researcher: renewable energy, ecosystem services, multi-parametric-analysis (MA Thesis)
Nov 2014 - Dec 2016	The Israeli department of agriculture (led by Iddo Kan & Ofira Ayalon): Treatment and Reuse of Vegetative Agriculture Organic Wastes – Economic Analysis of Integrative Technologies	Researcher: techno-economic-environmental analysis, circular economy
Jan 2016-Dec 2018	The Israeli ministry of environmental protection (led by Ido Izhaki): Assessment of ecosystem services and human wellbeing in Mount Carmel Biosphere Reserve (socioeconomic analysis)	Researcher: PhD dissertation; Economic valuation and modeling of ecosystem services in Mt. Carmel BR
Jan 2019-Dec 2021	The Israeli ministry of environmental protection (led by Gershman Y., Ayalon O., and Mamane H.): Ozonation as pretreatment for ethanol as transportation fuel replacement – optimization and life cycle analysis	Researcher: LCA, efficiency, scale-up and techno-economic feasibility
*** May 2020 – Dec 2023**	**AWESOME - mAnaging Water, Ecosystems and food across sectors and Scales in the sOuth MEditerranean**	Researcher: CGE modeling and ecosystem services analysis

D. List of Publications (articles published in scientific journals or books in last three years only)

1. **Raviv O**., Ayalon O., Palatnik R.R. (2015). Economic Evaluation of Wind Power Generation in Israel. Ecology and Environment 6(3). [Hebrew, an English version available here below]
   http://magazine.isees.org.il/ArticlePage.aspx?ArticleId=529
   - Conference paper:
     https://www.researchgate.net/publication/283148942_Economical-Environmental_Assessment_of_Wind-Power_Generation_in_Israel

2. **Raviv O**., Broitman D., Ayalon O., Kan I. (2018). A regional optimization model for waste-to-energy generation using agricultural vegetative residuals. Waste management, 73, March: 546-555 https://doi.org/10.1016/j.wasman.2017.10.011
    - Conference paper
3. Broitman D., **Raviv O**., Ayalon O., Kan I. (2018). Designing an agricultural vegetative waste-management system under uncertain prices of treatment-technology output products. Waste Management 75: 37-43 https://doi.org/10.1016/j.wasman.2018.01.041
4. Negev M., Sagie H., Orenstein D., Zemah-Shamir S., Hassan Y., Amasha H., **Raviv O.**, Fares N., Lotan A., Peled Y., Wittenberg L., Izhaki I. (2019). Using the ecosystem services framework for defining diverse human-nature relationships in a multi-ethnic biosphere reserve. Ecosystem services: 39 (100989)
5. **Raviv O.**, Zemah Shamir S., Izhaki I., Sagie H., Negev M., Mazor-Tregerman M., Collins-Kreiner N., Mansfeld Y., Lotan A. (2020). The socioeconomic value of multiple ecosystem types in a biosphere reserve as a baseline for one, holistic conservation plan. Ecosystem Services 41:101043. https://www-sciencedirect-com.ezproxy.haifa.ac.il/science/article/pii/S2212041618306582
6. **Raviv O**., Tchetchik A., Zemah Shamir S., Izhaki I., Lotan A. (2021). Direct and indirect valuation of air-quality regulation service as reflected in the preferences towards distinct types of landscape in a biosphere reserve. Ecological Economics 180:106835 https://www-sciencedirect-com.ezproxy.haifa.ac.il/science/article/pii/S0921800919319500
7. **Raviv O**., Zemah Shamir S., Izhaki I., Lotan A. (2021). The effect of wildfire and land-cover changes on the economic value of ecosystem services in Mount Carmel Biosphere Reserve, Israel. Ecosystem Services 49: 101291 https://www-sciencedirect-com.ezproxy.haifa.ac.il/science/article/pii/S2212041621000498
8. Gershman Y, Ayalon O, Maman H, **Raviv O**, Rosen Y, Halpern B, Peretz R, 2021. Ozonation as pretreatment for ethanol as transportation fuel replacement – optimization and life cycle analysis. Submitted to the Ministry of Environmental Protection [Hebrew].
9. **Raviv, O.,** Palatnik, R.R., Shechter, M. (2022). Review of the Economic Impact of Water Availability on Food Security and the Related Ecosystems. In: Cavalli, L., Vergalli, S. (eds) Connecting the Sustainable Development Goals: The WEF Nexus. Sustainable Development Goals Series. Springer, Cham. https://doi.org/10.1007/978-3-031-01336-2_4