Asael Greenfeld August 2025

CURRICULUM VITAE

1. Personal Details

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2. Higher Education

A. Undergraduate and Graduate Studies

Period of Study	Name of Institution	Degree	Year of Approval of Degree
2018 – 2021	University of Haifa, Maritime Civilizations	Ph.D.	2021
2011 – 2012	Hebrew University, Science Education	Teaching Certification	2012
2009 – 2011	Ben Gurion University of the Negev, Dryland	M.Sc.	2013
2005 – 2009	Open University, Life-Science	B.Sc.(excellence)	2010

B. Post-Doctoral Studies

Period of Study	Name of Institution, Department and Host	Degree	Year of Completion
2021-2022	University of Haifa, Natural Resources and Environmental Research Center, Dr. David Katz	Post-Doc.	2022

3. Academic Ranks and Tenure in Institutes of Higher Education

From-To	Name of Institution and Department	Rank / Position
2022-	Tel-Hai Academic college, Faculty of Social Sciences and Humanities	Lecturer
2020-2021	Tel-Hai Academic college, Faculty of Social Sciences and Humanities	Research Associate
2018-2019	Curtin University, Future food institute	Research Associate

4. Scholarly Positions and Activities outside the Institution

- The Israeli Environmental Economics Forum. Co-Founder (March 2025), and head of Multi-sector professional community.*

5. Participation in Scholarly Conferences

a. Active Participation

Date	Name of Conference	Place of Conference	Subject of Lecture /Discussion	Role
25-26/9/2024*	Society of Ecology and Environmental Science annual conference	Be'er-Sheva, Israel	Water treatment in Israel - Who carries the costs?	Lecture
29-30/3/2023*	Israel Water Workers Society annual conference	Bet Gavriel, Israel	Water releases to nature, challenges and achievements: a panel discussion	coordinator and mediator
6-7/6 2022	Society of Ecology and Environmental Science annual conference	Tel-Aviv, Israel	Assessing the impact of economic tools used for stream restoration	Lecture
10/6 /2021	Israel Economics Association annual conference	Israel (virtual)	Monetization of environmental impacts – sustainable vs. conventional farming	Lecture
7-8/7/2021	Society of Ecology and Environmental Science annual conference	Israel (virtual)	Vitamin D deficiency in the Northern Golan villages - a community based investigation of Social-Environmental background	Lecture
12-13/10/2020	Society of Ecology and	Haifa, Israel (virtual)	Combining non-market valuation and life cycle assessment to evaluate	Lecture

	Environmental Science Annual Conference		public support of sustainable farming: aquaponics as a case study	
25-26/6/2019	Israel Society of Ecology and Environmental Science Annual Conference	Tel Aviv, Israel	Aquaponics: sustainability promises that are hard to keep	Lecture
15-17/4/2019	Agricultural Economics Society Annual Conference	Warwick, Great Britain	Who will buy fishy lettuce? Australia and Israel as case studies on the potential consumers of aquaponic produce	Lecture
9-10/7/2018	Agri-Summit	Sydney, Australia	Economically viable aquaponics? Identifying the gap between potential and current uncertainties	Lecture
9-10/4/2018	EU Aquaponics Hub: final conference	London, Great Britain	The Path to Economically Viable Aquaponics	Lecture
29/11/2015	Ecological Society of Australia Annual Conference	Adelaide, Australia	Aquaponics - Revealing overlooked costs and benefits to farmer and environment	Lecture
19-20/12/2011	Israeli Zoological Society Annual Aonference	Tel Aviv, Israel	Reducing the competitive load of a Mediterranean bat, Kuhlii Pipistrellus, on local bat species in the Negev Desert	Lecture
8-11/11/2010	Drylands, Deserts and	Ben Gurion College, Israel	Kerem Ramon: an Agro-Social	Lecture

	Desertification		Cooperative in Mizpe Ramon	

b. **Organization of Conferences or Sessions**

Date	**Name of Conference**	**Place of Conference**	**Subject of Conference/ Role at Conference/ Comments**	**Role**
8-9.7 2025*	Society of Ecology and Environmental Science Annual Conference	Tel-Aviv, Israel	Economy for Change: Growth Engines and Regulation in the Era of the Environmental Crisis	Chair
12-13/7/2023	Society of Ecology and Environmental Science Annual Conference	Tel-Aviv, Israel	Opportunities and Challenges in water releases to nature	Session organizer and mediator

8. Research Grants

a. Grants Awarded

Role in Research	**Co-Researchers**	**Topic**	**Funded by/ Amount**	**Year**
Co-PI	Dror Angel – PI Yanay Farja-PI	CBA of local aquaculture in an era of global crises	University of Haifa and Tel-Hai Academic College joint research fund, 35,000 ILS	2021
Co-PI	Nir Becker - PI Yanay Farja-Co-PI Frank Wätzold Co-PI	CBA of Crane populations in the Agamon park	KKL, 119,000 ILS	2020

Co-PI	Dror Angel - Co-PI Nonka Markova-Nenova Co-PI		Aquaponics adoption by farmers in the Upper Galilee, Ministry of Agriculture and Rural Development, 180,000ILS	2019

b. Submission of Research Proposals – Not Funded

Role in Research	Co-Researchers	Topic	Funded by	Year	Score
PI	Oren Kolodny Co-PI	Examining Integrated Development Alternatives in Reservoirs and former Fishponds: Balancing Solar Energy, Wetland Restoration, and Biodiversity	KKL	2025*	78
Co-PI	Dror Angel - Co-PI Nonka Markova-Nenova Co-PI	Ecosystem Service Valuation Along the Lower Jordan River Valley : An Integrated Cost-benefit Analysis Among Transboundary Stakeholders	MERC	2023*	
Co-PI	Nir Becker - PI Yanay Farja-Co-PI Frank Wätzold Co-PI	CBA of Crane populations in the Agamon park - extension	KKL	2022*	

9. Scholarships, Awards and fellowships

2021, Mimshak Post-Doctoral fellowship, The Israel Society of Ecology and Environmental Sciences and University of Haifa, 108,000 ILS

2021, Research financing fund, University of Haifa, 1,000ILS

2021, Publication Grants, University of Haifa, 700ILS

10. Teaching

a. Courses Taught in Recent Years

Years	Name of course	Type of Course Lecture/Seminar/ Workshop/High Learn Course/ Introduction Course (Mandatory)	Degree	Number of Students
2024	Environment and Health	Lecture	Undergraduate	16
2024	Energy and Climate Change	Lecture	Undergraduate	23
2023	ESG	Lecture	Undergraduate	11
2023, 2024,	Environmental Economics	Lecture	Undergraduate	26-30
2022, 2023	Introduction to Ecology	Introduction Course (Mandatory)	Undergraduate	18-32
2017, 2019	Agro-economics	Lecture	certification	18

b. Supervision of Graduate Students

Name of Student	Title of Thesis	Degree	Date of Completion/ in Progress	Students' Achievements
Nero-Yair Noi With Zeevik Greenberg	Environmental Economic Evaluation of Development Alternatives for Micro-Settlements in the Galilee.	M.A	In Progress	Proposal approved

11. Miscellaneous

- Referee service: *Archives of Electrical Engineering, Agronomy, Pardes publishing, HaMaarag – Israel's National Ecosystem Assessment Program, Aquaculture Environment Interactions, Aquacultural Engineering, International Journal of Gastronomy and Food Science*
- Membership in Scientific Associations: *Israel Zoological Society, Israeli Society of Ecology and Environmental science, Ecological Society of Australia, Agricultural Economics Society, Israel Economic Associations*
- Guest lecture or Departmental seminar / webinar: Curtin University-Sustainability graduate program, Arava Institute-Environmental

Economics course, Shamir Institute-Agro-Ecology course, Hadassah Academic College - Environmental studies program

Public Activities	
From-To	***Type of Activity or Appointment***
2019 – 2023	Writing policy environmental reports and correspondence for the Golan Keepers (N.G.O)
2017 – 2020	Contributing Environmental-Economic Analysis for Litigation, for the Israel Nature and Parks Authority.
2005-	Intelligence officer in 98 Division, I.D.F, Major (Res.)

12. <u>Professional Experience</u>

- Katzrin educational farm: Agricultural Research student projects.
- Carmel School, Western Australia: Hebrew studies (high school).
- Mitzpe Ramon Environmental Educational center: Environmental studies. Course, Research project coordinator and advisor. (upper high-school).

PUBLICATIONS

A. PhD. Dissertation

Greenfeld, A. Environmental Economic aspects of commercial aquaponics. University of Haifa, Israel. Advisors: Prof. Dror Angel, Prof. Nir Becker and Prof. Janet Bornman. **23/11/2021**

B. Articles or Chapters in Scientific Books

Becker, N. and Greenfeld, Ecosystem services valuation. In Becker, N. and C. Friedman. (2020). Economic aspects of environmental quality (Heb.). Pardes publishing, Haifa Israel.

C. Published Articles in refereed journals

1. Farja, Y., Greenfeld, A., Angel, D. (2024). Local Mariculture vs. Imports: Economic assessment of Food Security and Environmental impacts. *Sustainability* [IF=3.30]. https://doi.org/10.3390/su16229625
2. Becker, N., Farja, Y., Greenfeld, A., Markova-Nenova, N., & Wätzold, F. (2023). A blueprint for addressing conflicts between ecotourism and farming from an economic perspective: The case of wintering crane conservation in the Hula Valley in Israel. *Ecological Economics*, *209*, 107824. [IF=6.53]. https://doi.org/10.1016/j.ecolecon.2023.107824
3. Greenfeld, A., Becker, N., Bornman, J.F. & Angel, D.L (2022) Is aquaponics good for the environment? - evaluation of environmental impact through life cycle assessment studies on aquaponics systems. *Aquaculture International* [IF=2.24]. https://doi.org/10.1007/s10499-021-00800-8
4. Greenfeld, A, Becker, N., Bornman, J.F & Angel, D.L (2021) Identifying potential adopters of aquaponic farming, *Journal of Environmental Planning and Management* [IF=2.74], https://www.tandfonline.com/doi/abs/10.1080/09640568.2021.1989390
5. Greenfeld, A., Becker, N., Bornman, J. F., Spatari, S., & Angel, D. L. (2021). Monetizing environmental impact of integrated aquaponic farming compared to separate systems. *Science of The Total Environment*, 792,148459 [IF=7.96]. https://doi.org/10.1016/j.scitotenv.2021.148459
6. Greenfeld, A. and Becker, N. Korona and air pollution reduction: The economic effect. *Ecology and Environment*, 2020 (1) (Heb.).
7. Greenfeld, A., Becker, N., Bornman, J. F., dos Santos, M. J., & Angel, D.L (2020). Consumer preferences for aquaponics: A comparative analysis of Australia and Israel. *Journal of Environmental Management* [IF=5.65], 257, 109979. https://doi.org/10.1016/j.jenvman.2019.109979
8. Greenfeld, A., Becker, N., Bornman, J.F., & Angel, D (2020). Identifying knowledge levels of aquaponics adopters. *Environmental Science and Pollution Research* [IF=3.06] 27 (4), 4536-4540 https://doi.org/10.1007/s11356-019-06758-8
9. Becker, N. Greenfeld A. and Zemah-Shamir S. (2019) "Cost–benefit analysis of full and partial river restoration: the Kishon River in Israel." *International Journal of Water Resources Development* [IF=1.89] 35 (5), 871-890. https://doi.org/10.1080/07900627.2018.1501349

10. Greenfeld, A., Becker, N., McIlwain, J., Fotedar, R., & Bornman, J. F. (2019). Economically viable aquaponics? Identifying the gap between potential and current uncertainties. *Reviews in* Aquaculture [IF=7.14] 11 (3), 848-862 https://doi.org/10.1111/raq.12269
11. Greenfeld, A., Saltz, D. Kapota D. Korine C. et al. (2018) "Managing anthropogenic driven range expansion behaviorally: Mediterranean bats in desert ecosystems." *European Journal of Wildlife Research* [IF=1.45] 64.3: 24 https://doi.org/10.1007/s10344-018-1182-1

D. **Refereed conference proceedings**

Greenfeld, A., Becker, N., Bornman, J. F., dos Santos, M. J., & Angel, D. (2019), Who will buy fishy lettuce? Australia and Israel as case studies on the potential consumers of aquaponic produce. In: Proceedings of the 93rd Annual Conference of the Agricultural Economics Society, University of Warwick, England

E. <u>Other Scientific Publications</u>

1. Becker, N., Agai-Shai, K., Erel, Y., Schaffer, G. Greenfeld, A. (2020) Economic cost of the health burden caused by selected pollutants in the Haifa Bay Area. Final report submitted to the Israel Ministry of Environmental Protection.
2. Greenfeld, A. (2020), How wind-farm may affect human health and well-being (Hebrew). Literature review for the Golan Keepers (N.G.O).
3. Becker, N. Greenfeld A. (2018), Valuation of ecosystem services provided by irrigated farmland in the Bit Shaan valley (Hebrew). Report to the "Emek Hamayanot" municipality.
4. Greenfeld, A. Polack O. (2018), Environmental implications of re-establishing the "Red Sea Star" structure as an underwater hotel in the Eilat coral reef (Hebrew). Impact assessment and preliminary bio-survey.
5. Becker, N. Greenfeld A. (2018), Environmental effects of suggested reform in the beef market. Report for the Israel cattle association.

K. <u>Submitted Publications</u>

Greenfeld, A., Erel, Y., Schaffer, G. Becker, N., Agai-Shai, K. (2025) Health and Economic Burden of Local Air Pollution Emissions in Haifa Bay Area. *Environmental Science and Pollution Research* [IF=5.8]

L. Summary of my Activities and Future Plans

I began my academic journey studying dryland ecology, contributing to the understanding of ecosystems to support impact wildlife conservation (Bat range expansion). Later on, I realized that by addressing the economics of environmental issues, research can become an agent of positive change. I embarked on my PhD journey on sustainable aquaculture that became my gateway to the world of ecosystem services and environmental economics. I studied economic aspects of aquaponics (2017-2021), exposing the challenges of prompting large scale sustainable farming. By joining a COST training program, I got the opportunity to share and collaborate with some of the leaders in that field. My research acquired funding from the Israel ministry of agriculture that allowed me to expand the study and quantify the environmental benefits of aquaponics using LCA, suggesting a frame work to cost benefit analysis of sustainable vs. conventional farming.

Extending the use of ecosystem service valuation for other fields, I joined the Horizon 2020 GO-Jelly research team, and reported the costs of different production schemes. I also compiled reports on the economic value of natural resources such as coral reefs, grazing lands, and farm-lands. In 2021 I joined the Mimshak Fellowship and served as an advisor to the NPA and Israeli Water Authority. The main project included using policy tools to promote stream restoration.

In 2022 I join Tel-Hai Academic College as an external lecturer and in 2023 joined the academic staff. My current focus is on promoting the use of economic valuation in environmental policy. I recruited a masters student studying alternative development options of rural villages in the Galilee, and applied for funding to explore wetland restoration from both a local fund (KKL), and as part of an EU consortium.

In coming years as Tel-Hai becomes a University I aim to develop a study group of colleagues and students expanding the use of economic valuation in an applicative context. Studies to be published in leading journals will be linked to policy reports and case-studies as I see my research as agent for change to make a better and more sustainable world.