January 2022

**CV – Nir Becker**



1. **Personal Details**

* Nir Becker
* Date of birth: 31/12/1959
* Country of birth: Israel
* Citizenship: Israeli
* Family status: Married + 2
* Work: Department of Economics and Management, Tel-Hai College, Upper Galilee, 12210 Israel.
* Office Phone: +972-4-8181701.
* E-mail address: [nbecker@telhai.ac.il](mailto:nbecker@telhai.ac.il)

1. **Higher Education**

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| --- | --- | --- | --- |
| **From-To** | **Institute** | **Area of Specialty** | **Degree** |
| 1981 – 1984 | Hebrew Univ. | Agricultural economics and Management | B.Sc. |
| 1984 – 1986 | Hebrew Univ. | Agricultural economics and Management | M.Sc.  **Name of advisor:**  Prof. David Bigman |
| 1986 – 1990 | University of Minnesota | Applied Economics | Ph.D.  **Name of advisor:** Prof. K.W. Easter |

1. **Academic Appointments and Academic Administrative Positions in Institutions of Higher Education**

**Academic Ranks**

|  |  |  |  |
| --- | --- | --- | --- |
| **From-To** | **Institute** | **Research Area** | **Title** |
| 1990 – 1997 | Haifa University | Environmental economics | Lecturer |
| 1997 – 2006 | Tel-Hai College | Environmental economics | Senior Lecturer |
| 2007 – 2013 | Tel-Hai College | Environmental Economics | Associate Professor |
| 2013 - | Tel-Hai College | Environmental Economics | Professor |
|  |  |  |  |

**Academic Administrative Positions:**

|  |  |  |
| --- | --- | --- |
| **From-To** | **Institute** | **Position** |
| 2002 -2013 | Fellowship committee, Tel- Hai College | Member |
| 2000 - 2009 | Tel-Hai College | Head, Department of Economics and Management |
| 2010 – 2013 | Tel-Hai College | Deputy Dean, Faculty of Humanities and social sciences |
| 2010-2012 | Tel-Hai College | In charge of the academic conferences |
| 2013 - 2018 | Tel-Hai College | Dean, Faculty of Humanities and social sciences |
| 2019 - | Tel-Hai College | Head, Department of Economics and Management |
| 2021 - | Tel-Hai College | Head of Research authority. |
| 2021 | Tel-Hai College | Rector |

1. **Teaching**

Describe teaching experience thoroughly, in chronological order (from old to new):

* The University of Haifa and Tel-Hai College: Operations Research, Natural and Environmental economics, Cost-Benefit Analysis, Managerial Economics and International Trade.
* Courses in Environmental Economics were also thought at the Hebrew University and Ben-Gurion University.
* Main courses taught in the past five years:

Managerial Economics – Undergraduate/Graduate

Operation Research – Undergraduate

International Economics – Undergraduate

Cost Benefit Analysis – Undergraduate/Graduate

Environmental Economics – Undergraduate/Graduate

Regional Economics – Graduate

1. **Supervision of Graduate Students:**

|  |  |  |
| --- | --- | --- |
| **Name of Student** | **Degree, Years Supervised** | **Thesis Title** |
| Yaron Fisman (With M. Shechter) | M.A.. 1999-2001 | Dynamic externalities in fertilizer uses. |
| Yael Choresh (With M. Inbar) | M.A., 2001 - 2003 | Cost benefit analysis of feeding stations for vultures |
| Vered Ben Shlomo (With M. Roman)  Tel-Aviv U. | M.A., 1999 - 2003 | The Value of Open spaces in Tel-Aviv |
| Naama Lindman (With I. Yitzhaki) | M.A., 2002 - 2004 | Economic Analysis of the Hulla project |
| Eyal Shani (With O. Ayalon) | M.A., 2002 - 2004 | Economic Analysis of the Hiria park project |
| Hagit Snir-Salinger (With U. Marinov) | M.A., 2002 - 2004 | Sustainable development of the Dead Sea basin |
| Helena Segal  (With E. Friedler) | M.A., 2002 - 2004 | Cost Benefit Analysis of the Shafdan sludge |
| Yuval Cohen  (With A. Chaim) | M.A., 2003 - 2005 | Fish - Birds conflict in the Beit-Shean Valley |
| Oren Azaria  (With M. Inbar) | M.A., 2004 - 2006 | Economics of Invasive species. |
| Sharon Goldzon  (With A. Haim) | M.A., 2002 - 2004 | Economics of Sea turtle conservation in Marine Reserve Parks. |
| Vered Ben – Shlomo  (With Y. Scnell)  Tel-Aviv U. | Ph.D., 2004 - 2009 | Urban parks components analysis: Application to Ayalon Park. (9.4) |
| Meira Segev  (With P. Bar)  Ben-Gurion U. | Ph.D, 2004 - 2009 | Non-Market values of national coasts (9.6) |
| David Lehrer  (With P. Bar)  Ben Gurion U. | M.A., 2007 - 2009 | A Bio-Economic model of risk assessment due to invasive species. |
| Chanoch Friedman (With E. Erell)  Ben Gurion U. | Ph.D., 2010 - 2013 | Cost Benefit Analysis of retrofit investment in green buildings |
| Hagit Navaro (With M. Inbar) | M.A., 2010 - 2011 | Environmental, biological and economic consideration in the case of Thermal disinfection of dates |
| David Lehrar (With P. Bar)  Ben Gurion U. | Ph.D., 2013-2020 | The cost of nature conservation |
| Irit Manor (With Pua Bar)  Ben Gurion U.  Ben Gurion U. | M.A. 2011-2013 | Biodiversity opportunity cost according to different definitions |
| Itai Divinski (With Pua Bar)  Ben Gurion U. | M.A., 2013-2015 | Tradeoffs between biodiversity and other assets in 3 nature reserves in Israel |
| Marina Pogorelov (With Tamar Dayan from Tel-Aviv U.) | M.A. 2015-2017 | Cost Benefit Analysis of the feeding program in the Agamon. |
| Yoni Yaacobi (With Avital Gasit from Tel-Aviv U.) | M.A. 2016-2021 | Synchronization of local heritage and water resources: Is there any value added? Application to the Gold park in Kiryat Shemona. |
| Asael Greenfeld (With Janet Boardman from Curtin U., Australia) | Ph.D. 2016-2021 | Economic analysis of Hydroponics |

1. **Research Grants**

|  |  |  |  |
| --- | --- | --- | --- |
| **From-To** | **Funding Agency** | **Title** | **Amount** |
| 1991 - 1993 | European Commission (EC) (With N. Zeitouni and M. Shechter) | Water trade in the middle east | 50K Euro |
| 1993 – 1994 | Water commission | Water trade In Israel | 100K NIS |
| 1992 – 1994 | Ministry of Infrastructure (With M. Schechter) | Air Basin management | 150K NIS |
| 1998 - 1999 | Ministry of the environment | The value of statistical life | 30K NIS |
| 1997 | Ministry of the environment | The value of Noise in Israel | 20K NIS |
| 1997 | European commission | Sustainable use of groundwater | 30K NIS |
| 1999 - 2000 | Israeli Electrical company (with Vered Ben Shlomo). | Survey of externalities in electricity production | 10K |
| 2001 – 2002 | Ministry of the environment (With D. Lavee) | Voluntary agreements | 25K NIS |
| 2001 – 2005 | Glowa Jordan river  (Part of a scientific team with I. Litaor coordinating) | Population and hydropolitics dynamics in the Jordan river basin. | 50K Euro |
| 2002 – 2004 | Ministry of the environment (With M. Inbar) | The economics of bird watching | 125K NIS |
| 2003 - 2004 | The Jerusalem Institute, the Ministry of the Environment and FOEME ME. | Sustainable future of the Dead Sea basin  (A governmental commission) | 70K NIS |
| 2003 | The Jerusalem Institute | Green Accounting: Theory and Application to Israel | 20K NIS |
| 2003 - 2004 | The EC – RAC/SPA | Sustainable use of Marine Reserves  (With R. Ortal, B. Galili and M. Goren) | 25K NIS |
| 2003 | Ministry of the Environment | Cost Benefit Analysis of Accelerated car retirement program (With D. Lavee) | 20K NIS |
| 2003 – 2005 | Municipality of Kiryat Shemona | Action plan for the **“Clean City project”** (With Snait Tamir)**.** | 30K NIS. |
| 2004 | Ministry of the Environment (With D. Lavee and Itai Freeman | Sustainable development in the Israeli government: An implementation plan. | 20K NIS |
| 2004 | Friend of the Earth | Environmental costs of desalinization (With Doron Lavee). | 11K NIS |
| 2005-2007 | KKL | Economic value of Forests in Israel | 90K NIS |
| 2004 – 2007 | EC | Optima: An optimization module for integrated water management in Mediterranean countries | 60K NIS |
| 2005 - 2007 | BMBF, Israeli ministry of science | Kidron river – Wadi Nar: The benefits of a cooperated management approach (With Eran Feitelson and Richard Laster) | 150K NIS |
| 2005 | Adam Teva Vadin | Cost benefit Analysis of Energy conservation | 24K NIS |
| 2005 | Femise - France | Country profile – Israel: Governance (With J. Kahn) | 30K NIS |
| 2007 | Nature and parks protection agency | Cattle – Wolves conflict analysis | 80K NIS |
| 2006 – 2008 | Glowa Jordan river part II | Cost benefit analysis of waste water re-use | 18K Euro |
| 2008 | Coalition for public health | Economic cost of morbidity and mortality due to air pollution in Israel | 40K NIS |
| 2009 | Nature and parks protection agency | The cost of nature protection (With A. Perevolutzki) | 80K NIS |
| 2010 - 2012 | Ministry of Infrastructures | Cost Benefit Analysis of retrofit investment in green buildings (With E. Erell) | 270K NIS |
| 2010-2011 | Ministry of Environmental Protection | Implementation of Polluters pays principle by benefit from non-compliance in Israel (With D. Lavee) | 75K NIS |
| 2010-2011 | Ministry of Environmental Protection | Estimation of Air pollution damages from Industry and Transportation in Israel (With G. Rosental) | 90K NIS |
| 2011 - 2013 | Ministry of Environmental Protection | Economic incentives in the green buildings industry (With Y. Gaarb, D. Perlmuter and E. Erell) | 300K NIS |
| 2011 | The Coalition for public health | Risk assessment of different hazardous facilities in the Haifa bay (with V. Ben-Shlomo). | 10K NIS |
| 2011 | Adam Teva Vadin | External effects of off shore natural gas drilling in the Mediterranean (with V. Ben-Shlomo). | 30K NIS |
| 2011 | Kison River authority | Non-Market benefits of the Kison River restoration plan (With S. Shamir). | 35 NIS |
| 2011-2012 | Friends of the Earth Middle East (FOEME) | Economic Benefits of restoring the lower Jordan River | 50K |
| 2012 | Ministry of the Environment | Economic valuation of land use change in Israel | 50K |
| 2013-2014 | Ministry of the Environment | Tradeoffs between ecological services and monetary services in LTER's in Israel (with P. Bar) | 150K |
| 2013 - 2015 | Tel-Hai internal research funds | Cost benefit analysis of healthy aging (With Shirra Hantman and Snait Tamir) | 50K |
| 2014 – 2017\* | Ministry of the Environment | Creating an environmental economic data set for the ministry | 500K |
| 2014 – 2018\* | Ministry of Agriculture and rural development | Possible solutions to soil surpluses during mega projects. | 750K |
| 2015 | Ministry of the Environment | Assessment of the monetary damage due to the oil spill in Evrona | 150K |
| 2015 | Ministry of the Environment | Estimating a fee on polluted river flow for different water qualities. |  |
| 2016 | Mifal Hapais | Costs and Benefits of managing open spaces: Application to Ramot Menashe Biosphere reserve | 70K NIS |
| 2016-2017 | National research institute | Cost Benefit Analysis of active aging | 150K NIS |
| 2016-2018 | Ministry of the Environment | Estimation of economic cost of air pollution in the Haifa bay area | 200K NIS |
| 2017-2018 | Ministry of infrastructure | Cost benefit analysis of shadowing | 50K NIS |
| 2019-2021 | Ministry of Agriculture and Rural Development | Aquaponics adoption by farmers in the Upper Galilee | 180K NIS |
| 2020 – 2021 | Tel-Hai internal fund. Research authority funded research | Economic benefit of partially social distancing after the COVID-19 pandemic. | 20K NIS |
| 2021 | JNF - KKL | Cost benefit analysis of Cranes in the Hula Valley. | 120K NIS |

1. **Awards and Fellowships**

* Dissertation won an honorable mention of the American Association of Agricultural Economics, 1990.
* Herald Jensen Award for the best dissertation in 1990 in the department of Agricultural and Applied Economics in the University of Minnesota.
* John Wiley prize for the best applied article in the Multiple Criterion Decision Analysis area, 1997.

1. **Active Participation in Conferences (Only from 2001)**

**\* denotes an invited or keynote lecture**

1. \*2001 - Water reform Policy: The Israeli Experience. Key note speech in **Designing Water reforms in Australia**. Melbourne, Australia.
2. 2001 – Economic analysis of air pollution from vehicles in Te Aviv. **Annual meeting of the Israeli Association of Ecology.**
3. 2001 – Dynamic use of water and inter-temporal use of marginal water. With Edna Leohman. **Annual meeting of the Israeli Association of Ecology.**
4. 2003 – Sustainable Management of the Dead Sea Water Resources. **University Council of Water Resources Centers, annual meeting.** Washington, DC, USA.
5. 2004 – Cooperation in a Hydro-Geologic Commons: New Institutions and Pricing to Achieve Sustainability and Security. With Edna Leohman. **International Water Demand Management Conference**. International Water Resources Association special meeting. The Dead Sea, Jordan.
6. \*2004 – Cost Benefit Analysis of the Dead Sea current Water Level Policy. Key note Speech in **The Economics of Sustainable Management and Development of the Dead Sea Basin**. International Conference organized by Friends of the Earth Middle East. Movenpick hotel – Dead Sea – Jordan.
7. 2004 – The Use and Non Use of the Agmon. **University Council of Water Resources Centers, annual meeting.** Portland, OR, USA.
8. 2004 – Groundwater Management in a Hydro-Economic Commons: Application to Israel and the West Bank. With Edna Leohman. **Water for Life in the Middle East**. International Conference organized by Israeli Palestinian Center for Research and Information (IPCRI). Antalya, Turkey.
9. 2004 – A Bio-Economic Valuation of Protecting Vultures. With Yael Choresh, Moshe Inbar and Ofer Bahat. **Sixth Annual Conference on Economics and the Analysis of Biology and Biodiversity**. Cambridge, England.
10. 2005 – Economic Analysis of Cross Boundary River Restoration Plan: The Alexander River Case Study. **University Council of Water Resources Centers, annual meeting.** Portland, ME, USA.
11. 2006 – Wildlife – Human Conflict The Economic perspective. **Cormorant – Fishery Conflict in the Hula Valley**. InterCafe and Natural Protection Agency International Conference. Kfar Blum, Israel.
12. 2006 – A comparative analysis of wastewater reuse as a possible solution to drought crisis. With Doron Lavee. **University Council of Water Resources Centers, annual meeting.** Santa Fe, NM, USA.
13. 2006 – The Economic Value of Coastal Natural Parks. With Meira Segev and Pua Bar. **The Israeli Geographical Society annual meeting.**
14. \*2006 – Cost Benefit Analysis of the Current Dead Sea Water Level Drop. **The Dead Sea annual Conference,** Kibutz Ein Geddy.
15. \*2006 **-** Conflicts between farmers and Nature. **Water and Agriculture,** Conference organized by the ministry of Agriculture, Kibutz Nir Etzion.
16. \*2007 - Conflicts between farmers and Nature. Invited lecture at the annual conference of the research department at the Nature Protection Agency. The Volkani Institute.
17. \*2007 – Wolves-Rancher's conflict at the Golan height. Invited lecture at the annual conference of Nekudat Hen. Kibutz Tzuva.
18. \*2008 – The economics of energy saving. **Israeli Economic Society. + Chair of the Environmental Economics session.**
19. 2008 - Water conflicts and market solutions in the Middle East. **University Council of Water Resources Centers, annual meeting.** Boise, ID USA.
20. 2009 - Cost effectiveness solutions for pollution reduction. **The European Society for Energy economists**. Vienna, Austria
21. 2009 – Wildlife-Human conflict: The Agmon case study. **Meeting in honor of Israel Levin.** The Hula Reserve.
22. \*2010 – The economics of Ecological tourism. Keynote speech at the Haifa conference for eco-tourism. The University of Haifa.
23. \*2010 – Session chair and organizer: Environmental Economics. **Israeli Ecology and environmental Society** (also deliver of the key lecture in the session).
24. 2010 – Internalization of air pollution in Israel based on optimization. **The European Society for Energy economists**. Vilna, Lithuania.
25. 2010 - The economics of pricing nature reserves. **BioEcon group**, Venice
26. 2011 – The economics of scrapping old appliances. **Society of Sustainable Development.** Dubrovnik, Croatia.
27. \*2011 – Chairman of the Macro session at: **Greening the Economy with Agriculture.** International conference organized by the UN. The Macabia Village.
28. \*2012 – Session chair and organizer: Environmental Economics. **Israeli Economic Society.**
29. **\*** 2012 – The Social value of Cranes in the Hula Valley. **The Cranes Conference**. Kibutz Kfar Blum (organized by the society for nature protection). Invited Lecture.
30. **\*** 2013 – Session moderator in **Economic modeling of ecosystems and Bio-invasion.** Organized by the Milken Institute.
31. **\*** 2013 – The economics of rivers restoration. Invited lecture for the **3rd water forum day.** The Technion, Haifa Israel.
32. \*2013- Water conflict in the Middle East. **A general lecture in the Faculty of Agriculture.** Both faculty and students (100 audited).
33. 2013 - CBA of retrofit of residential buildings in Israel. International conference of Sustainable Energy and Environmental Protection. Maribor, Slovenia.
34. **\*** 2013 – The benefit of Clean air act in Israel. Business and the Environment. Kfar Hamacabia, Israel.
35. \* 2014 – Aesthetic values in municipal gardens. **Landscape annual conference**, Eilat, Israel.
36. 2014 – Private and Social motivations for green building and retrofit actions. In **Sustainable environments** (Workshop organized by the Technion), Tel Aviv, Israel.
37. \* 2014 – Gas and Oil funds: Options for actions. Panel participant in **Environment 2050** (Organized by Globes with hundreds of participants), Tel Aviv, Israel.
38. 2014 - **American association of Water Resources annual conference**, Sparks, NV USA. Integrated water management in Israel.
39. 2014 – Session moderator of “Environmental indicators” in the **Israeli association of Ecology and Environmental Sciences** annual conference, Bar-Ilan University.
40. \*2015 – The Economics of wetland restoration: The case of the Lower Jordan River. Invited lecture at the Berlin-Brandenburg Academy of Science.
41. 2015 – Behavioral factors impact on increased risk of health symptoms for elderly people in Europe (and Israel) – Paper presented at the **annual meeting of the Israeli Economic Society**. Dan hotel, Tel-Aviv.
42. 2015 – Do Ecologists and the public see eye to eye the ecological damages; Application to the sand dunes in Israel – Paper presented at the **annual meeting of the Israeli Ecological and Environmental Science Society** – Hebrew University, Jerusalem.
43. \*2015 - Economics of Renewable energy resources. General invited lecture at the Weizmann institute, Rehovot Israel.
44. \*2016 – Water pricing experience in Israel: Various waters, various neighbors. Invited lecture for a **workshop in the University of California Water Resources Centre, Sacramento**, CA. Feb. 1-3rd. Water pricing for a dry future.
45. 2017 – Ramat Hanadiv ecological valuation. In the BioEcon annual conference, Tilburg. Netherlands.
46. 2017 – Cost Benefit Analysis of the Kishon river restoration plan. In the sustainable energy and water annual conference, Dubrovnik, Croatia.
47. \*2018 – World Congress of Environmental Economists, June 25-29th. Symposium on water policy. June.
48. 2018 – Shark tourism: Benefits and costs. Bio-Econ 20th conference, Cambridge, UK. September.
49. 2018 – Shark tourism: Benefits and costs. ENVECON 5th conference, University of Thessaly, Volus, Greece. November.
50. 2019 – Who will eat fishy lettuce? Annual agricultural economics society. University of Warwick. April.
51. 2019 – Who will eat fishy lettuce? Annual workshop in the honor of Yair Mundlak. Hebrew University. June.
52. 2019 - Does nationality matters? Cooperation in storks conservation. 7th WONV workshop. Universite Aix Marseille.
53. 2019 – Sharks tourism: Non market valuation and tradeoffs. CIESM annual conference, Estoril, Portugal.
54. 2021 – LCA of Aquaponics production. The 37th annual meeting of the Israeli Association of Economics.
55. \*2021 – Private and Public motives in sustainable agriculture. The annual conference for agricultural sciences.
56. **Publications** 
    1. **M.Sc.**

Becker, N. An Economic Analysis of the Drought compensation Scheme. The Hebrew University, Israel. Supervisor: Prof. David Bigman. 1986. (Heb.)

* 1. **Ph.D. thesis**

Becker, N. Dynamic Supply from a Common Property Resource. The University of Minnesota, USA. Supervisor: Prof. K.W. Easter. 1990.

* 1. **Books**

Becker, N. and Y. Choresh. (2006). Economics of Marine Protected Areas. UNEP – MAP. RAC/SPA, Tunis.

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

* 1. **Edited books**

Becker, N. (Ed.). (2013). Water Policy in Israel: Context, Issues and Options. Springer Science & Business Media.

* 1. **Articles in refereed journals**

Becker, N. and Easter, K. W. (1989). Residential Water Demand in Metro Manila‑Discussion. *Water Resources Bulletin* 25(6), 1273-1274.

Easter, K. W., & Becker, N. (1989). Inter-basin Water Transfers: An Economic Panacea or a Political Ploy. *Journal of the Minnesota Academy of Science JMNAAC*, *55*(1).

Becker N. and Easter, K. W. (1992). Dynamic Supply from A Common Property Resource: Water diversions From the Great Lakes. *Natural Resource Modeling*, 4, 343‑371.

Becker, N., Baron, M. G., & Shechter, M. (1993). Economic instruments for emission abatement under appreciable technological indivisibilities. *Environmental and Resource Economics*, *3*(3), 263-284.

Schechter M., Zeitouni N. & Becker, N. (1994). Trading in Water: An Illustrative Application to the Middle East. *International Irrigation Review* (Hebrew), 14(2), 12‑16.

Zeitouni N., Becker, N. & Schechter, M. (1994). Auctions for Water Rights in a Regional Context: The Middle East. *Resource and Energy Economics*, 16 (4), 303 ‑ 320.

Becker N., (1994). Public policy and the value of clean air: An alternative approach. *Journal of Environmental Planning and Management*, 37(1), 21‑31.

Zeitouni N., Becker, N. & Schechter, M. (1994). Markets for Water in the Middle East. Economic Quarterly (Hebrew), 3, 400 ‑ 416.

Zeitouni, N., Becker, N., & Shechter, M. (1994). Water sharing through trade in markets for water rights: An illustrative application to the Middle East. *Studies in Environmental Science*, *58*, 399-412.

Becker, N. (1995). The value of institutional change in moving from central planning to a market system: the Israeli experience. *Agricultural Economics*, *21*, 11-21.

Becker, N., & Easter, K. W. (1995). Water diversions in the great lakes basin analyzed in a game theory framework. *Water resources management*, *9*(3), 221-242.

Becker, N. (1996). Reallocating water resources in the Middle East through market mechanisms. *International Journal of Water Resources Development*, *12*(1), 17-32.

Becker, N., & Shechter, M. (1996). Decentralized economic incentives under technological indivisibilities: a cooperative game approach. *Ecological Economics*, *17*(1), 9-20.

Becker, N., & Easter, K. W. (1997). Water diversion from the Great Lakes: is a cooperative approach possible? *International Journal of Water Resources Development*, *13*(1), 53-66.

Becker N. and Soloveitchick, D. (1998). Dynamic Multi-objective Optimization of environmental regulations policies. *Journal of Multi-Criteria Decision Analysis*, 7, 3-19.

Becker, N., & Easter, K. W. (1998). Conflict and cooperation in utilizing a common property resource. *Natural Resource Modeling*, *11*(3), 173-198.

Becker, N., & Zeitouni, N. (1998). A market solution for the Israeli-Palestinian water dispute. *Water International*, *23*(4), 1-5.

Becker, N., & Easter, K. W. (1999). Conflict and cooperation in managing international water resources such as the Great Lakes. *Land Economics*, 233-245.

Becker, N. (1999). A comparative analysis of water price support versus drought compensation scheme. *Agricultural Economics*, *21*(1), 81-92.

Becker, N. I. R., & Lavee, D. (2002). The effect and reform of water pricing: The Israeli experience. *International Journal of Water Resources Development*,*18*(2), 353-366.

Becker, N., & Lavee, D. (2003). The benefits and costs of noise reduction. *Journal of Environmental Planning and Management*, *46*(1), 97-111.

Becker, N. (2003). Water Pricing—Its Effects and Proposed Reforms: The Israeli Experience. *International Journal of Public Administration*, *26*(3), 247-263.

Becker, N., Inbar, M., Bahat, O., Choresh, Y., Ben-Noon, G., & Yaffe, O. (2005). Estimating the economic value of viewing griffon vultures Gyps fulvus: A travel cost model study at Gamla Nature Reserve, Israel. *Oryx*, *39*(04), 429-43

Becker, N., & Katz, D. (2006). Economic valuation of resuscitating the Dead Sea. *Water policy*, *8*(4), 351-370.

Ayalon, O., Becker, N., & Shani, E. (2006). Economic aspects of the rehabilitation of the Hiriya landfill. *Waste management*, *26*(11), 1313-1323.

Loehman, E. & Becker, N. (2006). Groundwater management in Hydro-Economic Commons. *Water resources development*, 22(4), 603–614.

Becker, N., Fishman, Y., & Lavee, D. (2008). Economic evaluation of investment in electricity conservation. *Energy Conversion and Management*, *49*(12), 3517-3530.

Becker, N., Choresh, Y., Bahat, O., & Inbar, M. (2009). Economic analysis of feeding stations as a means to preserve an endangered species: The case of Griffon Vulture (Gyps fulvus) in Israel. *Journal for Nature Conservation*, *17*(4), 199-211.

Becker, N., & Lavee, D. (2009). Commercial Development and Conservation Value The Case of Rosh Haniqra Marine Reserve in Israel. *Journal of Infrastructure Development*, *1*(2), 193-217.

Fishman, Y., Becker, N., & Shechter, M. (2009). Treatment versus prevention of Nitrogen fertilizer pollution: An inter-sectoral externality policy model. *Natural resource modeling*, *22*(1), 137-171.

Becker, N. (2009). A comparative analysis of the pricing systems of nature reserves. *Tourism Economics*, *15*(1), 193-213.

Lavee, D., & Becker, N. (2009). Cost-benefit analysis of an accelerated vehicle-retirement programme. *Journal of Environmental Planning and Management*, *52*(6), 777-795.

Becker, N., & Freeman, S. (2009). The economic value of old growth trees in Israel. *Forest Policy and Economics*, *11*(8), 608-615.

Becker, N., Lavee, D., & Katz, D. (2010). Desalination and alternative water-shortage mitigation options in Israel: a comparative cost analysis. *Journal of Water Resource and Protection*.

Abramson, A., Tal, A., Becker, N., El-Khateeb, N., Asaf, L., Assi, A., & Adar, E. (2010). Stream restoration as a basis for Israeli–Palestinian cooperation: A comparative analysis of two transboundary streams. *Intl. J. River Basin Management*, *8*(1), 39-53.

Dombrowsky, I., Almog, R., Becker, N., Feitelson, E Klawitter, S., Lindemann, and Mutlak, N. (2010). "How widely applicable is river basin management?" *Environmental Management*, 45(May), 1112-1126.

Becker, N., Choresh, Y., Bahat, O., & Inbar, M. (2010). Cost benefit analysis of conservation efforts to preserve an endangered species: The Griffon Vulture (Gyps fulvus) in Israel. *Journal of bio economics*, *12*(1), 55-70.

Becker, N. (2010). Pricing nature reserves: Yes? No? How? The case of Darga nature reserve. *Israeli Economic Review*. 57(4), 356-380. (Hebrew)

The English version of this paper was published in: Israel Economic Review (2012). Vol. 10, No.1, 95-121. Israel Economic Review in the English version. This journal is a hybrid of the Israeli Economic Review and Bank of Israel papers which only part of the papers in both journals are offered to be published in English. <http://www.bankisrael.gov.il/deptdata/mehkar/iser/17/iser_3.pdf>

Becker, N., Soloveitchik, D., & Olshansky, M. (2011). Incorporating environmental externalities into the capacity expansion planning: an Israeli case study. *Energy Conversion and Management*, *52*(7), 2489-2494.

Lehrer, D., Becker, N., & Bar, P. (2011). The economic impact of the invasion of Acacia saligna in Israel. *International Journal of Sustainable Development & World Ecology*, 18(2), 118-127.

Lavee, D., Ritov, M., & Becker, N. (2011). Is desalination the most sustainable alternative for water-shortage mitigation in Israel? *International Journal of Sustainable Economy*, *3*(4), 410-424.

Shelem, I., Lavee, D., & Becker, N. (2011). Contamination by the Israeli military industry and its impact on apartment sale prices in an adjacent Tel Aviv neighborhood: a hedonic pricing model study. *International Journal of Urban Sustainable Development*, 3(2), 221-231.

1. Abramson, A., N. Becker. Y. Garb and N. Lazarovitch. (2011). Willingness to Pay, Borrow, and Work: Unlocking the potential of cost recovery for rural water service improvements in LDC’s. *Water Resources Research.* 47(11). Article number 11512
2. Fishman, Y., Becker, N., & Shechter, M. (2012). The Polluter Pays Principle as a policy tool in an externality model for nitrogen fertilizer pollution. *Water Policy*, *14*(3), 470-489.

Becker, N., Lavee, D., & Tavor, T. (2012). Desalinate or divert? Coastal non-market values as a decision tool for an integrated water management policy: The case of the Jordan River basin. *Ocean & Coastal Management*, *64*, 27-36.

1. Becker, N., D. Soloveitchik and M. Olshanski. (2012). A weighted average incorporation of pollution costs into the electrical expansion planning. *Energy and Environment.* 23(1): 1-16.
2. Fishman, Y., Becker, N., & Shechter, M. (2012). An input tax on nitrogen fertiliser pollution in the presence of transaction costs. *Journal of Environmental Planning and Management*, *55*(9), 1206-1227.
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23. Becker, N. (2002) Environmental Economics. In Ovrim Leyarok (Bar Ilan Publishing). 40 Pages.
24. Becker, N. and N., Zeitouni, (2005). Cost Benefit Analysis. Unit 12 in an upcoming series of the Open University: Managerial Economics. 60 pages.
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26. Becker, N., Choresh, Y., Inbar, M. & Bahat, O. (2007). Combining TCM and CVM of endangered species: Estimation of the marginal value of vultures in the presence of species – visitors' interaction. in A., Kontoleon A., U. Pascual and T. Swanson (eds.), Biodiversity Economics: Issues, Methodologies and Applications (pp. 313-342). Cambridge University Press, Boston, MA, USA.
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34. Becker, N. (2013). Concluding Remarks: Policy Options and Research Agenda. Chapter 18 in Becker N. (ed.) Water Policy in Israel: Context, issues and Options. pp. 287-290. Springer publishing.
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39. Becker, N. (2017). External cost of food production. In Koll, M. and Wienberg, E. Environmental Pest Management. Chapter 16. Pp. 369-381. Wiley publishing.
    1. **Refereed conference proceedings**

Bigman, D., Becker, N. & Barak, H. (1989). Wheat Production in Semi‑arid Areas and the Role of Drought Compensation: The Israeli experience in the Northern Negev. in B. Greenshields and M. Bellamy (eds.). Government Intervention in Agriculture: Cause and Effect (pp. 21‑27). Athenaeum Press, Cambridge, MA, USA.

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Friedman, C., Erell, E. And Becker, N. (2014) "Economic Analysis of Retrofit for old residential properties in Israel". SEEP, Maribor.

* 1. **Other articles (in collections or non-refereed journals)**

Becker, N. (1987). An Economic Analysis and Alternatives for the Drought Compensation Scheme in Israel. Hasade (Hebrew) 67(7).

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Shani, E., Becker, N. & Ayalon, O. (2005). Cost benefit analysis of the Hiria lanfill reclamation plan. Reading in Natural Resources and Environmental Management, 2 (2): 55 – 70.

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Choresh, Y., Yaffe, O. & Becker, N. (2004). A Travel Cost Analysis of the Gamla Nature Reserve. Reading in Natural Resources and Environmental Management 1(3), 91 – 112.

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Cohen, Y., Becker, N. & A. Haim (2006). Night Herons and Fish Ponds in the Beit Shean Valley: The conflict and alternatives. Fishing and fishery, 37 (1), 950 – 960.

Becker, N. & Choresh, Y. (2007). Economic valuation of nature recreation: Estimating the Biria forest value using Travel Cost Method. Forest (Hebrew), 9, 33– 39.

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O'Mahony, C., Becker, N., Lencinas, M. V., Peréz-Ruzafa, A., Schindler, S., & Descoteaux, D. (2021). Thank you and farewell to Antonio Machado. Journal for Nature Conservation, 126127.

**9. Books Review:**

Global Challenges. T. Sandler, for the *Southern Economic Review.* 1998.

The Water Economy of Israel. Y. Kislev, for *Water Economics and Policy*. 2005.

1. **Miscellaneous**

Referee service: *Arboriculture and Urban Forestry, Applied Energy, Australian journal of Agricultural Economics, Biodiversity and conservation, Biological Conservation, Canadian Water Resources Journal, Coastal Management, Cross Cultural Communication, Desalination and Water Treatment, Ecological Economics, Ecology and Environment, Ecosystem Services & Management, Energy, Energy Conversion and Management, Energy Ecology and Environment, Environment and Development Economics, European review of agricultural economics, European Transactions on Electrical Power, Forest Policy and Economics, Geography Research Forum, Human Dimension of Wildlife, International Journal of Biodiversity Science, Journal of Bio Economics, International Journal of Environmental Research and Public Health, Journal of Agricultural Economics, Journal of Aging and Social Policy, Journal of Environmental Management, Journal of Environmental Planning and Management, Journal of Nature Conservation, Journal of Planning History, Journal of Research in International Business and Management, Land Use Policy, Marine Policy, Ocean and coastal management Political Geography, Plos One, Policy Sciences, PNAS, Resources and Energy Economics, Rural Studies, Sustainable transportation, Tourism Geography, Urban water journal, Waste management, Water and environment, Water Research, Water Resources and Econ Economics, Water resources management, Water resources research, Water policy.*

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| *Membership in Scientific Associations* |
| * *Israeli Society of Ecology* * *Israeli Society of Economics* * *European Society of Environmental and Resource Economists.* |

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| *Public Scientific Activities* | |
| *From-To* | *Type of Activity or Appointment* |
| 1990 - | **Advisor** to the ministry of the Environment, water commission and the ministry of National Infrastructure on economic and policy issues. |
| 2001 | Scientific board of **WECUP**. An Israeli Palestinian NGO for cooperative solid waste management in the west bank |
| 2004 - 2006 | Scientific board of: **Transportation today and tomorrow**. An NGO for promoting public transportation |
| 2002 - 2005 | Member of the governmental committee for writing the policy document: **A sustainable future management of the dead Sea** |
| 2004 | Member of the planning committee for the conference: **Water for life**. Held in Turkey, Oct. 2004. |
| 2004 – 2007 | **Chairperson,** Professional committee for agricultural economics research proposals from the ministry of Agriculture and BARD. |
| 2002 - 2005 | **Member,** fellowship committee, Tel-Hai Academic College. |
| 2003 - 2005 | **Advisory committee** – "Clean City" project for Kiryat Shmona's municipality. |
| 2006 - 2008 | **Member** of the finance sub-committee of LIFE. A UN financed project for river reclamation in the northern part of Israel. |
| 2007 - 2009 | Member of the nature protection and heritage (economic sub – committee) – Nature and parks protection agency. |
| 2010 - 2012 | **In charge** of the conference facilities services at Tel-Hai College |
| 2010 | **Member** of the steering committee. Annual meeting of the Israeli Ecological and Environmental Sciences Society |
| 2010 | **Member** of the scientific committee for the French-Israel Water and Environment research foundation. |
| 2010-2011 | **Member** of the program committee, annual meeting of the European Association of Environmental and Resource Economists |
| 2012- | **Chairperson,** Professional committee for agricultural economics research proposals from the ministry of Agriculture. |
| 2012- | In charge of environmental economics continuing education programs at the Israeli Electrical Company. |
| 2013 | In charge of a course in environmental economics for employees at the Ministry of the Environment. |
| 2013- | Economic consultant to the Ministry of the Environment through professional consulting to TAVOR company. |

* Membership in editorial boards of journals: *The Open Economic Journal*, *Ecology and Society (Heb.), Water Economics and Policy*
* Organization of conferences:

1999 – **The Economics of Peace**. Organized in Tel – Hai, Dec. 1999. Main topic was the economic potential for peace among Israel – Lebanon – Syria.

2006 – **Social, Economic and Ecological considerations in managing natural parks.** Organized in Tel–Hai in June 2006. Main topic was for or against entrance fees to parks as a management tool.

2013 – **The Economics and other social aspects of aging**. Organization is under process with collaboration between Migal and Tel-Hai College. Dec. 2013.