

April, 2019

## **RESUME**

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## **ACADEMIC DEGREES**

2006 Ph.D. Interdisciplinary Graduate Studies (Environmental Studies), Brown University, Providence, Rhode Island.  
1996 M.Sc. Ecology (with honors), Ben Gurion University of the Negev, Beer Sheva, Israel.  
1992 B.Sc. Environmental Biology and Management (with honors), University of California, Davis, California

## **ACADEMIC APPOINTMENTS**

Since 2018 Associate Professor, Faculty of Architecture and Town Planning, Technion – Israel Institute of Technology, Haifa, Israel  
2011-2018 Assistant Professor, Faculty of Architecture and Town Planning, Technion – Israel Institute of Technology, Haifa, Israel  
2008–2011 Adjunct Lecturer, Faculty of Architecture and Town Planning, Technion – Israel Institute of Technology, Haifa, Israel  
2007–2009 Post-Doctoral Fellow, Faculty of Architecture and Town Planning, Technion – Israel Institute of Technology, Haifa, Israel  
2006–2007 & 2008–2009 Visiting research fellow, Watson Institute for International Policy, Brown University, Providence, RI

## **RESEARCH INTERESTS**

My research focuses on three themes: Ecosystem service assessment, particularly social assessments, integrative, interdisciplinary analyses and landscape preferences; Environmental policy (with a focus on desertification, population, and forest fire policies), and socio-ecology (conceptualization, research methodologies and implications of its application).

### **TEACHING EXPERIENCE (past three years)**

- Ecological Principles for Planners (undergraduate level), Technion – Israel Institute of Technology
- Ecological issues in the Israeli Landscape (graduate level), Technion – Israel Institute of Technology
- Environmental Policy (graduate level), Technion – Israel Institute of Technology and the Arava Institute for Environmental Studies
- Introduction to Environmental Science (graduate level), Technion – Israel Institute of Technology
- Nature-City-Fire (special course designed to understand and teach the lessons of the 2016 fire in the city of Haifa) (graduate level), Technion – Israel Institute of Technology

### **TECHNION ACTIVITIES**

- 2019 – present Academic representative to the Technion Green Campus Committee
- 2016 – present The Social & Behavioral Sciences Institutional Review Board (SBS-IRB) – Occasional reviewer
- 2013 – 2016 Technion Ecological Gardens Faculty Advisory Committee
- 2011 – 2019 Green Campus Committee – committee responsible for improving environmental performance of the Institute
- 2010 – present Contributor to “Focus” – Newsletter of the Technion (8 articles and one video narration)

### **DEPARTMENTAL ACTIVITIES**

- 2019 – present Vice Dean for Graduate Studies and Junior Faculty – The Faculty of Architecture and Town Planning
- 2014 – present Management Committee – The Center for Urban and Regional Studies
- 2013 – present Academic Committee – VizLab Visualization Laboratory
- 2012 – 2013 Director – Visualization Laboratory Development and Construction Team
- 2012 – present Supervisor – five projects sponsored by the Social Hub for Community and Planning
- 2011 – 2019 Coordinator – Colloquium Series for Faculty of Architecture and Town Planning, Technion.

### **PUBLIC PROFESSIONAL ACTIVITIES**

- 2018 – present Science Committee. 2019 International Long-Term Ecological Research Conference, Leipzig, Germany.
- 2018 – present Science Committee, International Long-Term Ecological Research (ILTER) Network, responsible for advancing socio-ecological research in the global network

2017 – present	Central committee, European Long-Term Ecological Research (LTER-Europe) Network, responsible for advancing socio-ecological research in the European network.
2017	Science committee, 2017 International Long-Term Ecological Research Conference, Nantes, France.
2014 – 2018	Member of the Board of Directors, The Israel Union of Ecology and Environmental Sciences
2013 – 2016	Technion Advisory Committee for Campus Master Plan (Ecology advisor)
2012 – 2016	Member, advisory committee and lead author, “Conceptual Framework” for the Israel National Ecosystem Assessment. Israel Academy of Sciences and Humanities.
2012 – 2017	Judge, Best Student Paper Competition. Israel Union of Planners Annual Conferences.
2011	Session organizer “Selected Chapters in Israeli Environmental History.” June, 2011. 39th annual conference of the Israel Union of Ecology and Environmental Science. Megiddo Regional Council, Israel.
2010 – 2018	Co-chair, expert committee for socio-ecological research European Long Term Ecological Research (LTER) Network
2008 – present	Scientific committee member, responsibility for integrating social science research into the ecological research agenda and representing Israel LTER in pan-European LTER meetings, Israel Long Term Ecological Research (LTER) Network, Israel
2008 – 2010	Academic advisory board and Head of committee on open space policy, Israel Green Movement-Meimad

### **EDITORIAL ACTIVITIES**

Reviewer for the following journals and publishers (number of reviews):

- Land Use Policy (5)
- Ecology and Environment (Hebrew; 5)
- Journal of Arid Environments (3)
- Ecological Indicators (2)
- PLOS-One (2)
- Ecosystem Services (2)
- Science Advances (1)
- Science of the Total Environment (1)
- Sustainable Cities and Society (1)
- Environmental Politics (1)
- Conservation Biology (1)
- Journal of Human Ecology (1)
- Environment, Development and Sustainability (1)
- Letters in Spatial and Resource Sciences (1)
- Yale University Press (1 book)
- Environmental and Planning B (1)
- International Journal of Biodiversity and Conservation (1)
- Arcadia (1).
- BioScience (1)
- Regional Environmental Change (1)

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Ecological Society of America – Member  
 Israel Society for Ecology and Environmental Science – Member  
 Switzer Environmental Network - Fellow

### **FELLOWSHIPS, AWARDS AND HONORS**

2018 Yanai Prize for Excellence in Academic Education  
 2016 - 2017 “Excellence in Teaching” recognition, winter semester (2016), winter semester (2017)  
 2007 – 2009 Ne’eman Post-Doctoral Fellowship. Technion, Israel  
 2006 – 2007 Switzer Environmental Leadership Fellowship  
 2004 – 2005 Switzer Environmental Student Fellowship  
 2004 – 2005 Faculty Scholar Award. Brown University.  
 2001 Graduate student scholarship. Chaim Herzog Center for Middle Eastern Studies and Diplomacy, Ben Gurion University

### **GRADUATE STUDENTS**

#### **M.Sc. Theses**

##### ***Completed***

Roy Zaidenberg, M.Sc. student (Technion), 2017. “Stakeholder Mapping and Ecosystem Services Perception Gaps in the Southern Dead Sea Region.” Principle supervisor, Asst. Prof. Daniel Orenstein; Prof. Amnon Frenkel as co-supervisor.

Shira Grossbard, M.Sc. student (Technion), 2017. “Vernal Pools as Urban Nature: guidelines for conservation of urban vernal pools”. Principle supervisor: Dr. Elissa Rosenberg; Asst. Prof. Daniel Orenstein and Dr. Sarig Gafni as co-supervisors.

Zohar Zafon, M.Sc. (Technion), 2017. “Can landscape characteristics represent biodiversity as an indicator of ecological value?” Principle supervisor, Asst. Prof. Daniel Orenstein; Assoc. Prof. Yohay Carmel as co-supervisor.

Adi Noy, M.Sc. (Technion), 2016. “The Desert Landscape Architecture of Shlomo Aronson: Theory and Practice.” Principle supervisor, Assoc. Prof. Nurit Lissovsky; Asst. Prof. Daniel Orenstein as co-supervisor.

Leyron Shachaf, M.Sc. (Technion), 2016. “The Contribution of Environment Impact Statements to Incorporation of Wildlife Passages in Highway Planning in Israel.” Principle supervisor, Asst. Prof. Daniel Orenstein; Assoc. Prof. Pnina Plaut as co-supervisor. (Thesis received award for best graduate (MSc) thesis for 2016 from the Israeli Planners Association and best thesis award from the Faculty of Architecture and Town Planning.)

Aviva Shmila-Vdai, M.Sc. (Technion), 2015. “Public participation and integrating stakeholders in the establishment and management of Biosphere Reserves in Israel: research assessment.” Principle supervisor, Prof. Shamai Assif; Asst. Prof. Daniel Orenstein as co-supervisor.

Abra Berkowitz, M.Sc. (Ben Gurion University), 2013. “Reconciling conflicting planning paradigms: The case of Israeli spatial planners in the Negev.” Principle supervisor, Dr. Daniel Orenstein; Dr. Sarab Abu-Rabia-Queder as co-supervisor.

Ofer Arnon, M.Sc. (Ben Gurion University), 2012. “Spatial distribution of homesteads in the Central Negev and its implications on landscape ecological indicators.” Principle supervisor, Dr. Daniel Orenstein; Prof. Pua Bar and Prof. Alon Tal as co-supervisors.

### ***In Progress***

Yonis Saada, M.Sc. (Technion), 2019 (*expected*). “Assessing perceptions and attitudes towards natural landscapes and open spaces among Arab youth in Israel.” Principle supervisor.

Soli Hodiya-Zilcha, M.Sc. (Technion), 2021 (*expected*). “Identification and assessment of importance of cultural ecosystem services at the urban-rural interface using focusing methodology.” Principle supervisor

### **PhD theses**

#### ***In Progress***

Semion Polinov, Ph.D. student (University of Haifa), 2017 – present. “Historical changes in human activities in the Mediterranean Sea and their drivers.” Principal supervisor: Revital Bookman; Asst. Prof. Daniel Orenstein as Ph.D. committee member.

Amir Lewin, Ph.D. student (Tel Aviv University), 2017 – present. “Evaluating the Drivers and Impacts of Irrigated Agricultural on Biodiversity and Ecological Systems in the Arava Valley.” Principle supervisor: Takuya Iwamura; Asst. Prof. Daniel Orenstein as Ph.D. committee member.

Hila Sagie, Ph.D. student (Technion), 2017 – present. “The role of stakeholder integration in the ecosystem services framework as a tool for land management.” Exp. date of completion, 2021

Liat Hadar, Ph.D. student (Technion), 2014 – present. “Visual models as predictive, science-based tools for assessing future ecological landscapes and for supporting management decisions.” Principle supervisor, Asst. Prof. Daniel Orenstein; Assoc. Prof. Yohay Carmel as co-supervisor. Exp. date of completion, 2019

Jen Holzer, Ph.D. student (Technion), 2014 – present. “From Ecological to Socio-Ecological Research: A Global Paradigm Shift.” Principle supervisor, Asst. Prof. Daniel Orenstein. Exp. date of completion, 2019

Lihi Golan, Ph.D. student (Technion), 2013 – present. “Evaluation of the planning process for Biosphere reserves in Israel.” Principle supervisor, Asst. Prof. Daniel Orenstein; Assoc. Prof. Pnina Plaut as co-supervisor. Exp. date of completion, 2018. (Award for best poster, 2017 Annual Meeting of the Israel Planners Association).

### **Post-doctoral fellows supervised**

- Yael Teff-Seker. 2017 – 2018. “Embodied thinking and cultural ecosystem assessment in two natural areas”
- Yaella Depietri. 2017 – 2019. “Assessing Cultural and Regulating Ecosystem Services and Exploring their Spatial Correlation”
- Hagit Zimroni. 2013 – 2016. “Stakeholder perceptions of forests under diverse management regimes”
- Na’ama Teschner. 2014. “Between Science and Ideology: Perspectives on Desertification and Afforestation in the Northern Negev”; 2016-2018. “Examining impediments for implementation of sustainable policies in Israel’s viticulture industry”

### **RESEARCH GRANTS (past 5 years)**

- 2018 – 2019 “Assessing Public Landscape Perceptions in the Biria and Meron Forests in Response to Treatments following Snow Damage.” I am conducting landscape perception surveys and discussion groups among visitors to the forests and residents adjacent to the forests.  
Principle investigator. 44,000 NIS funded by Keren Kayemet L’Israel.
- 2017 – 2018 “Adopting sustainable management practices in Israel’s wine-grape growing industry.” Dr. Na’ama Teschner and are continuing a study on overcoming barriers towards adoption of sustainable agricultural strategies. 30,000 NIS, funded by Tabor Wineries.
- 2016 – 2020 “Development and evaluation of a comprehensive framework for identifying, characterizing and valuing cultural ecosystem services”. I, along with students and post-doctoral researchers, am investigating diverse methodological approaches to assessing cultural ecosystem services in multiple geographic venues.  
Principle investigator. 596,000 NIS, funded by the **Israel Science Foundation**.
- 2016 – 2017 “Beyond Management to Encourage Natural Plant Growth in Vineyards: From Ecology to Policy.” I am currently studying the impediments of adoption of sustainable agricultural practices in vineyards through stakeholder interviews.  
Co-principle investigator with Dr. Tamar Keisar, University of Haifa. 25,000 NIS, funded by Nekudat Hen.
- 2015 – 2016 “Assessing Public Landscape Perceptions in the Biria and Meron Forests in Response to Treatments following Snow Damage.” I am conducting landscape perception surveys among visitors to the forests.  
Principle investigator. 73,000 NIS funded by Keren Kayemet L’Israel.
- 2015 – 2019 “ELTER: European Long-Term Ecosystem and Socio-ecological Research Infrastructure.” I and my PhD student are assessing the impact of the transition from ecological to socio-ecological research within the European LTER network and I am preparing a best-practices guidebook for the establishment of socio-ecological research platforms.  
Co-principle investigator with Prof. (Em.) Moshe Shachak, Ben Gurion University, Prof. Arnon Karnieli, Ben Gurion University, and Dr. Elli Groner (Dead Sea – Arava Research Center). €29,000 for the Technion team (Total €5 Million) funded by **European Union, Horizon 2020**.

- 2015 – 2019 “Ecopotential: Improving Future Ecosystem Benefits through Earth Observations.” I am conducting landscape perception surveys in Israel’s Negev Desert.  
Co-principle investigator with Prof. (Em.) Moshe Shachak, Prof. Ehud Marom and Prof. Arnon Karnieli, Ben Gurion University. €50,000 for the Technion team (Total €16 Million) funded by **European Union, Horizon 2020**.
- 2014 – 2017 “Assessing the Planning Process for Biosphere Reserves.” I and my PhD student are assessing the role of planning in the establishment and maintenance of Biosphere Reserves.  
Co-principle investigator with Assoc. Prof. Pnina Plaut. 103,000 NIS funded by Keren Kayemet L’Israel.
- 2014 – 2017 “Desert Landscape Architecture – Between Planning and Execution. The Work of Shlomo Aronson in Keren Kayemet Sites.” My graduate student is writing her thesis on the work of landscape architect Shlomo Aronson.  
Co-principle investigator with Assoc. Prof. Nurit Lissovsky. 105,000 NIS funded by Keren Kayemet L’Israel.
- 2014 “The Nadiv Valley as a Biosphere Reserve Viewed as a Legacy of the Baron.” I conducted a literature review of regional sustainability initiatives and oversaw a survey of local residents regarding environmental perceptions, opinions and activities.  
Co-principle investigator with Prof. Shamay Assif and Dr. Dalit Shach-Pinsley. 143,000 NIS funded by Park Ramat HaNadiv.
- 2013 – 2015 “Ecosystem services assessment from the mountain to the sea: A multidisciplinary method for defining ecosystem service indicators across landscape units.” I conducted a spatial analysis of ecosystem services in the Carmel range and analyzed the impact of planning scenarios on ES provision.  
Co-principle investigator with Asst. Prof. Michelle Portman and Assoc. Prof. Tally Katz-Gerro. 150,000 NIS funded by Israel Ministry of Environmental Protection (Office of the Chief Scientist).
- 2013 – 2015 “The use of full-immersion visualization for assessing stakeholder perceptions of ecosystem services in the Carmel Forest.” We conducted focus-group discussions in a visualization laboratory to understand landscape perceptions in the Carmel Forest.  
Co-principle investigator with Dr. Efrat Eizenberg. 150,000 NIS funded by Israel Ministry of Environmental Protection (Office of the Chief Scientist).
- 2010 – 2013 “Planning for the Future in Kikar Sedom”. My graduate student and I conducted interviews regarding stakeholder perceptions of their natural environment.  
Co-principle investigator with Dr. Gil Ben-Natan (Dead Sea Arava Research Center). 75,000 NIS funded by Israel Ministry of Science, Technology and Space.

## **PUBLICATIONS**

### *Theses*

- 1997 M.Sc. Thesis. “The impact of leaf litter on ecosystem flows in a semi-arid environment”, Mitrani Center for Desert Ecology, Ben Gurion University of

the Negev (1996). Supervisors: Prof. Moshe Shachak and Dr. Bertrand Boeken.

- 2006 Ph.D. Dissertation “The Drivers and Ecological Outcomes of Land Use/Land Cover Change in Israel”, Interdisciplinary special studies degree through the Graduate School, Brown University (2006). Dissertation committee: Steven Hamburg (chair), John Mustard, Brian O’Neill, Michael White, Nurit Kliot

***Refereed papers in international professional journals***

1. Boeken B. and **D. Orenstein**. The Effect of Plant Litter on ecosystem properties in a Mediterranean semi-arid shrubland. Journal of Vegetation Science. 12:825-832. 2001.
2. **Orenstein, D.E.** Population Growth and Environmental Impact: Ideology and Academic Discourse in Israel. Population and Environment. 26(1):41-60. 2004.
3. **Orenstein, D.E.** and S.P. Hamburg. To Populate or Preserve? Competing Political-Demographic and Environmental Paradigms in Israeli Land Use Planning. Land Use Policy. 26(4):984-1000. 2009.
4. **Orenstein, D.E.**, and S.P. Hamburg. Population and Pavement: Population Growth and Land Development in Israel. Population and Environment. 31(4):223-254. 2010.
5. Collins, S., S.R. Carpenter, S.M. Swinton, T.L. Gragson, **D.E. Orenstein**, N.B. Grimm, J.M. Grove, S. L. Harlan, A.K. Knapp, G.P. Kofinas, J.J. Magnuson, W.H. McDowell, J.M. Melack, L.A. Ogden, G.P. Robertson, M.D. Smith, A.C. Whitmer. An Integrated Conceptual Framework for Social Ecological Research. Frontiers in Ecology and the Environment. 9(6): 351–357. 2011.
6. **Orenstein, D.E.**, B. Bradley, J. Albert, J. Mustard, and S.P. Hamburg. The Truth is in the Data? Comparative Methodologies for Monitoring Urban Development in Israel. International Journal of Remote Sensing. 32(9):2621-2644. 2011.
7. **Orenstein, D.E.**, L. Jiang, and S.P. Hamburg. An Elephant in the Planning Room: Political-Demography and its Influence on Sustainable Land Use Planning in Drylands. Journal of Arid Environments. 75(6):596-611. 2011.
8. Frenkel, A. and **D.E. Orenstein** (*equal contribution of both authors*). Can Urban Growth Management Work in an Era of Economic and Political Change? Lessons from Israel. Journal of the American Planning Association. 78(1):16-33. 2012.
9. **Orenstein, D.E.**, E. Groner, E. Argaman, B. Boeken, Y. Preisler, M. Shachak, E. D. Ungar and E. Zaady. An Ecosystem Services Inventory: Lessons from the Northern Negev Long-Term Social Ecological Research (LTSER) Platform. Geography Research Forum. 32:96-118. 2012.
10. Sagie, H., Y. Rofè, A. Morris, **D.E. Orenstein**, and E. Groner. Cross-Cultural Perceptions of Ecosystem Services: A Social Inquiry on Both Sides of the Israeli-Jordanian Border of the Southern Arava Valley Desert. Journal of Arid Environments. 97:1-11. 2013.
11. **Orenstein, D.E.**, A. Frenkel and F. Jahshan. Methodology Matters: Measuring Urban Spatial Development Using Alternative Methodologies. Environment and Planning: B. 41(1):3-23. 2014
12. Dick, J.M., Al-Assaf, A., Andrews, C., Díaz-Delgado, R., Groner, E., Halada, L., Izakovicova, Z., Kertész, M., Khoury, F., Krašić, D., Krauze, K., Matteucci, G.,



- Melecis, V., Mirtl, M., **Orenstein, D.E.**, Preda, E., Santos-Reis, M., Smith, R.I., Vadineanu, A., Veselić, S., Vihervaara, P. Ecosystem Services: a Rapid Assessment Method Tested at 35 sites of the LTER-Europe Network. Ekologia. 33(3):217-231. 2014
13. Moss, B., Bidoglio, G., Piertowsky, R., Breil, P., Bourgeron, P., Cullmann, J., Arduino, G., Jasser, I., Magnuszewski, A., **Orenstein, D.**, Piper, G., Ratajski, S., Wagner, I., Xia, J., and Zalewski, M. International Symposium on Ecohydrology, Biotechnology and Engineering: Towards Harmony between the Biogeosphere and Society on the basis of Long-Term Ecosystem Research, September 17 – 19, Łódź, Poland. Ecohydrology and Hydrobiology. 14(2014):1-13. 2014
  14. **Orenstein, D.E.** and E. Groner. In the Eye of the Stakeholder: Changes in Perceptions of Ecosystem Services across an International Border. Ecosystem Services. 8(2014):185-196. 2014
  15. Katz-Gerro, T. and **D.E. Orenstein** (*corresponding author*). Environmental Tastes, Opinions and Behaviors: Social Theory in the Service of Ecosystem Service Assessment. Ecology and Society. 20(3): 28. 2015.
  16. **Orenstein, D.E.**, H. Zimroni and E. Eizenberg. The Immersive Visualization Theater: A new tool for ecosystem assessment and landscape planning. Computers, Environment and Urban Systems. 54:347-355. 2015.
  17. Maase M., P. Balvanera, J. Baudry, P. Bourgeron, J. Dick, M. Equihua, M. Forsius, L. Halada, K. Krauze, M. Nakaoka, **D. Orenstein**, T. Parr, C. Redman, R. Rozzi, M. Santos-Reis, A. Vădineanu. Changes in biodiversity and trade-offs among ecosystem services, stakeholders and components of well-being: the contribution of the ILTER to PECS. Ecology and Society. 21(3):31. 2016.
  18. **Orenstein, D.E.**, T. Katz-Gerro and J. Dick. Environmental tastes as predictors of environmental opinions and behaviors. Landscape and Urban Planning. 161:59-71. 2017.
  19. Teschner, N., **D.E. Orenstein**, I. Shapira and T. Keasar. Commentary: The contribution of socio-ecological research to a transition toward sustainable practices in agriculture. International Journal of Agricultural Sustainability. 14(2):99-101. 2017.
  20. Eizenberg E., **D.E. Orenstein** and H. Zimroni. Back to the (visualization) laboratory: using focus groups to generate qualitative and quantitative results. Journal of Planning Education and Research. 1-14: March, 2017.
  21. **Orenstein, D.E.** and D. Shach-Pinsly. A Comparative Framework for Assessing Sustainability Initiatives at the Regional Scale. World Development. May, 2017
  22. Holzer, J., N. Carmon and **D.E. Orenstein**. Evaluating socio-ecological research: A proposed methodology. Ecological Indicators. 85:808-819. 2018.
  23. Dick, J., **D.E. Orenstein**, J. Holzer, C. Wohner, A. Achard, C. Andrews, N. Avriel-Avni, P. Beja, N. Blond, J. Cabello, C. Chen, R. Díaz-Delgado, G.V. Giannakis, S. Gingrich, Z. Izakovicova, K. Krauze, N. Lamouroux, S. Leca, V. Melecis, K. Miklós, M. Mimikou, G. Niedrist, C. Piscart, C. Postolache, A. Psomas, M. Santos-Reis, U. Tappeiner, K. Vanderbilt, G. Van Ryckegem. What is socio-ecological research delivering? A literature survey across 25 international LTSER platforms. Science of the Total Environment. 622-623:1225-1240. 2018.

24. Mirtl, M., E. Borer, I. Djukic, M. Forsius, P. Haase, H. Haubold, W. Hugo, J. Jourdan, D. Lindenmayer, W. McDowell, H. Muraoka, **D.E. Orenstein**, J. Pauw, J. Peterseil, H. Shibata, C. Wohner, X. Yu. Genesis, Goals and Achievements of Long-Term Ecological Research at the global scale: A critical review of ILTER and future implications. Science of the Total Environment. 626:1439-1462. 2018.
25. Holzer, J.M., Adamescu, M.C., Bonet-García, F.J., Díaz-Delgado, R., Dick, J., Grove, J.M., Rozzi, R., **Orenstein, D.E.** Negotiating local vs. global needs in the International Long Term Ecological Research (ILTER) Network's Socio-Ecological Research Agenda. Environmental Research Letters. 13(10):105003. 2018.
26. Hummel, C., van der Meer, J., Poursanidis, D., Adamescu, M.C., Cazacu, C., Elliott, M., Ziv, G. **Orenstein, D.E.**, Hummel, H. The use of the Ecosystem Services approach in Protected Area management. Science of the Total Environment. 651(Pt.2):2432-2443. 2019.
27. **Orenstein, D.E.**, D. Troupin, E. Segal, J.M. Holzer, and G. Hakima-Koniak. Utilizing spatial and landscape planning to promote ecological conservation on a university campus. International Journal of Sustainability in Higher Education. 2019.
28. Teff-Seker, Y. and **D.E. Orenstein** (*corresponding author*). The "Desert Experience": Evaluating the Cultural Ecosystem Services of Drylands through Walking and Focusing. *Accepted to* People and Nature.

### ***Papers in review***

1. Negev, M., **D.E. Orenstein**, H. Sagie, S. Zemah Shamir, Y. Hassan, H. Amasha, O. Raviv, N. Fares, A. Lotan, and I. Izhaki. Using the Ecosystem Services Framework for Defining Diverse Human-Nature Relationships in a Multi-Ethnic Biosphere Reserve. *In revision for* Ecosystem Services.
2. Depietri, Y. and **D.E. Orenstein**. Fire regulating services and disservices: an application to the Haifa-Carmel region in Israel. *In revision for* Frontiers in Environmental Science, Land Use Dynamics.
3. Ben-Dor, S., **D.E. Orenstein** and M. Shachak. Web of interactions approach to identify essential ecosystem variables: the case of the Negev Highlands. *Submitted to* Ecological Indicators.
4. Depietri, Y. and **D.E. Orenstein**. Managing fire risk at the wildland-urban interface requires reconciliation of trade-offs between regulating and cultural services. *Submitted to* Ecosystem Services.
5. Dick, J., Andrews, C., **Orenstein, D.E.**, Teff Seker, Y. and G. Zulian. Understanding perceptions of urban and wild landscapes. *Submitted to* Science of the Total Environment.
6. Shach-Pinsly, D., **D.E. Orenstein**, S. Assif, and I. Filkovski. Analysis and Assessment of Models for Regional Sustainability and Local Stakeholder Participation. *Submitted to* Ecology and Environment (*in Hebrew*).
7. Holzer, J., C.M. Adamescu, C. Cazacu, R. Diaz-Delgado, J. Dick, P.F. Méndez, L. Santamaria, **D.E. Orenstein**. Results from a Case Study Evaluation of Transdisciplinary Science in the European Long-term Socio-Ecological Research (LTSER) Network. *Submitted to* Biological Conservation.
8. Berkowitz, A., Abu-Rabia-Queder, S., **Orenstein, D.E.** Transformative Practices Within Mechanisms of Control: 'Recognizing' Unrecognized Arab-Bedouin Villages at the Rural-Urban Fringe. *Submitted to* Berkeley Planning Journal.

### *Refereed papers in Israeli professional journals (in Hebrew)*

1. **Orenstein, D.**, B. Boeken and M. Shachak. The Impact of Litter on Ecosystem Processes in Shrublands. Ecology and Environment. 5(2-3):106-111. 1999.
2. Groner, E., **D.E. Orenstein**, O. Lihod, W. Muithui, O. Arnon and A. Tal. The Impact of Homesteads in the Negev on Local Biodiversity. Ecology and Environment. 3(4):320-329. 2012.
3. Sagie, H., **D.E. Orenstein**, E. Groner, M. Strom, A. Morris and Y. Rofè. Trans-border perceptions of ecosystem services: A social inquiry in the Southern Arava Valley. Ecology and Environment. 3(1):22-31. 2012.
4. Zimroni, H., E. Eizenberg and **D. Orenstein**. Between cultures of natures and communities of knowledge: Expert knowledge and local knowledge regarding perceptions of Mount Carmel forest. Israeli Sociology. 2017.
5. Golan, L., **D. Orenstein** and P. Plaut. What makes a successful Biosphere Reserve? Local and International insights. Ya'ar. 18:45-53. 2017.

### *Refereed book chapters*

1. Frenkel, A. and **D.E. Orenstein**. A Pluralistic Approach to Defining and Measuring Urban Sprawl. Pp. 165-181 in: Yang, X. (ed.), Urban Remote Sensing. John Wiley. Hoboken, NJ. 2011.
2. Mirtl, M., **D.E. Orenstein**, M. Wildenberg, J. Peterseil, M. Frenzel, and E. Furman. Challenges and experiences in implementing place-based Long-Term Socio-Ecological Research in LTER-Europe. Pp. 409-442 in: Singh, S.J., H. Haberl, M. Chertow, M. Mirtl, M. Schmid (eds.), Long-term socio-ecological research: Studies in society-nature interactions across spatial and temporal scales. Springer. Heidelberg, Germany. 2013.
3. **Orenstein, D.E.** Zionist and Israeli Perspectives on Population Growth and Environmental Impact in Palestine/Israel. Pp. 82-105 in: Orenstein, D.E., Miller, C. and A. Tal (eds.), Between Ruin and Restoration: An Environmental History of Israel. University of Pittsburg Press. Pittsburg, PA. 2013.
4. **Orenstein, D.E.** and E. Silverman. An Environmental Movement: New Forms of Expression. Pp. 357-382 in: Orenstein, D.E., Miller, C. and A. Tal (eds.), Between Ruin and Restoration: An Environmental History of Israel. University of Pittsburg Press. Pittsburg, PA. 2013.
5. **Orenstein, D.E.** and E. Groner. Using the ecosystem services framework in a long-term socio-ecological research platform: Lessons from the Wadi Araba desert, Israel and Jordan. In: Rozzi, R., Pickett, S.T.A., Callicott, J.B., Chapin, F.S., Power, M.E. and Armesto, J.J. (eds): Earth Stewardship: Linking Ecology and Ethics in Theory and Practice. Springer. Dordrecht, Germany. 2015.
6. Pereira, M.G., Hayes J.P., C. Miller, and **D.E. Orenstein**. Fire on the Hills: An environmental history of fires and fire policy in Mediterranean-type ecosystems. Pp. 145-169 in Vaz, E. and C. Joanaz de Melo (eds). Environmental History in the Making, Proceedings of the 2nd World Congress on Environmental History (ICEHO, Portugal 2014), Springer. Dordrecht, Germany. 2017.
7. Avriel-Avni, N., J. Holzer, M. Shachak, **D.E. Orenstein**, and E. Groner. Using transdisciplinary action research toward sustainable management in the Negev

Highlands. In Maposte, T. (ed.) "Cross-Disciplinary Approaches to Action Research and Action Learning." IGI-Global Publishers. Hershey, PA. USA. 2017.

### ***Books & special issues***

1. **Orenstein, D.E.**, Miller, C. and A. Tal (eds.). *Between Ruin and Restoration: An Environmental History of Israel*. University of Pittsburgh Press. Pittsburg, PA. 400 pp. 2013.

### ***Refereed papers in conference proceedings***

1. Orenstein, D.E. and A. Frenkel. Assessing Urban Growth Management Policies: The Case of Israel's Sharon Region. Eilat 2009 FIG Working Week. May 2009. Eilat, Israel.
2. Noy Ivanir, A., N. Lisovsky and D. E. Orenstein. 2015. "Desert Gardens" vs "Gardens in Deserts" - Contrasting Approaches to Arid Landscape Design. *Landscapes in Flux*. Tartu, Estonia.
3. Depietri, Y., Orenstein, D.E.. 2018. Humans play a crucial role in coproducing regulating ecosystem services: the case of forest fires in the Carmel-Haifa region. 8th International Conference on Building Resilience – ICBR. Lisbon, Portugal.
4. Depietri, Y., Orenstein, D.E.. 2018. Tradeoffs between regulating and cultural services as a sources of fire risk in Haifa. 11th International Forum on Urbanism (IFoU) Congress. Barcelona, Spain.

### ***Research reports or Case reports***

1. Keisar, T., I. Shapira, D. Orenstein, N. Teschner, I. Landau, and M. Ackerman. Adopting management for conserving natural vegetation in vineyards: From ecological implications to policy transformation. *Nekudat Hen*. (In Hebrew). 2017.
2. Zimroni, H., D. Orenstein, E. Eizenberg, A. Zuk, and Y. Porat. Assessing public landscape preferences regarding the Biria and Merom forests following treatments for snow damage. *Keren Kayemet L'Israel*. (In Hebrew). 2016.
3. Troupin, D., E. Segal, and D. Orenstein. Report on Biodiversity Surveys in the Technion Campus. Haifa (In Hebrew). 2015.
4. Troupin, D., E. Segal, and D. Orenstein. Principles and Tools for Ecological Management in University Campuses. Technion Campus Planning Committee. Haifa (In Hebrew). 2014.
5. Shach-Pinsley, D., S. Assif, D. Orenstein, T. Shalom, I. Kaplan, and S. Polinov. The Nadiv Region as a Sustainable Region. Ramat HaNadiv. Zichron Yaakov. 2014.
6. Orenstein, D. E. and I. Itzhaki. Conceptual Framework of the Israel National Ecosystem Assessment (Interim Report). HaMa'arag, Jerusalem. 2014.
7. Orenstein, D.E., R. Zaidenberg, A. Gottlieb, H. Ginat, C. Cohen and G. Ben Natan. Planning for the Future in Kikar Sedom. Israel Ministry of Science, Jerusalem. 2014.
8. Groner, E., M. Shachak and D. Orenstein. Long-term Socio-ecological Research (LTSER) Platforms in Israel. Chapter in "LTER: A History of its establishment in Israel and the World" by E. Groner and M. Shachak. Published by LTER-Israel. (In Hebrew). 2011.
9. Orenstein, D.E., M. Frenzel and A. Neuner. Long-Term Socio-Ecological Research (LTSER) Best Practices Guide. A guide for the establishment of new LTSER

platforms in Europe, summarizing the results of a workshop in Sumava, Czech Republic, in February, 2009 under the auspices of LTER-Europe. 2009.

10. Orenstein, D.E. Israel's most pressing environmental problems. Background paper prepared for the Jerusalem Institute for Policy Studies initiation of their environmental policy research program. 1999.

## **CONFERENCES (past 5 years)**

### ***Plenary, keynote or invited talks***

#### ***Abroad***

- 2013 LTSER: concept, status of the LTSER component of LTER-Europe and outlook towards H2020. LTER Europe Annual Conference. CNR – National Research Council, Rome, Italy. (*Plenary keynote lecture*)
- 2015 Unraveling the science and politics of historical population-environment discourse in Israel. Ecological Society of America. Baltimore, MD. (*Invited panel talk*)
- 2017 Addressing Grand Societal Challenges with Socio-Ecological Research. LTER Europe Annual Conference. Malaga, Spain. (*Plenary keynote lecture*)

#### ***In Israel***

- 2017 Nature, Landscapes and Biodiversity: What do the 99% (non-ecologists) think? Israeli Society for Conservation Ecology. Sede Boker, Israel. (*Invited plenary talk*)

### ***Presentations (giving papers)***

#### ***Abroad***

- 2013 Multicultural Assessment of Ecosystem Services Across an International Border: Lesson for Land Use Policy in Hyper-Arid Regions. Annual Conference of the Association of the European Schools of Planning (AESOP). July, 2013. Dublin, Ireland.
- 2013 Multicultural Assessment of Ecosystem Services across an International Border. Ecohydrology, Biotechnology and Engineering Symposium. September, 2013. European Regional Centre for Ecohydrology under the auspices of UNESCO. Lodz, Poland.
- 2014 Science, Politics and Ideology between Two Wildfires in Israel's Carmel Forest, July, 2014. World Congress of Environmental History. Guimaraes, Portugal.
- 2015 Searching for Spatial Sustainability: One Goal, Multiple Paths? July, 2015. Annual Conference of the Associations of the European Schools of Planning (AESOP). Prague, Czech Republic.
- 2016 Defining environmental tastes as a tool for cultural ecosystem service assessment. October, 2016. Annual meeting of the International Long-Term Ecological Research Network and All-Science Meeting. Kruger National Park, South Africa.
- 2017 Utilizing spatial and landscape planning to promote ecological conservation on university campuses: A case study. July, 2017. Annual Conference of the Associations of the European Schools of Planning (AESOP). Lisbon, Portugal.
- 2017 Utilizing spatial and landscape planning to promote ecological conservation on university campuses. August, 2017. Ecological Society of America. Portland, Oregon, USA.

- 2017 Nature, Landscapes and Biodiversity: What do the 99% (non-ecologists) think? October, 2017. Annual meeting of the International Long-Term Ecological Research Network and All-Science Meeting. Nantes, France.
- 2018 Green or Brown, Built or Open? Correlations between landscape preferences in an arid ecosystem, underlying environmental values and demographic characteristics. June, 2018. 5<sup>th</sup> European Congress of Conservation Biology. Jyväskylä, Finland.

### ***In Israel***

- 2013 Between Science and Ideology: Perspectives on Desertification and Afforestation in the Northern Negev. October 2013. Annual Conference of the Israel Society of Ecology and Environmental Sciences (ISEES). The Hebrew University, Rehovot.
- 2013 Can we talk about Population Growth now? The History of the scientific-political-social Discourse on Population and Environment in Israel. October, 2013. Annual Conference of the Israel Society of Ecology and Environmental Sciences (ISEES). The Hebrew University, Rehovot.
- 2014 An Ecosystem Services Inventory: Lessons from the Northern Negev Long-Term Social Ecological Research (LTSER) Platform. March, 2014. The Negev Conference for Agricultural Research and Development. The Agricultural Research Institute, Eshel HaNasi Youth Village.
- 2015 Principles and Tools for Planning and Management of Ecological University Campuses. February, 2015. Annual Conference of the Israeli Planners Union. Ben Gurion University, Beer Sheva.
- 2015 Searching for Spatial Sustainability: One Goal, Multiple Paths? October, 2015. Annual Conference of the Israel Society of Ecology and Environmental Sciences (ISEES). The Hebrew University, Jerusalem.
- 2015 Ecosystem assessment as a tool for characterizing human-environment relations, from the Arava to Scotland. December, 2015. Annual Conference of the Israeli Geographical Association. The Hebrew University, Jerusalem.
- 2016 Environmental Tastes: A New Tool for Assessing Cultural Ecosystem Services. June, 2016. Annual Conference of the Israel Society of Ecology and Environmental Sciences (ISEES)
- 2017 Exploring Public Landscape Perceptions in Israel Biriya and Meron Forests after Snow Damage. April, 2017. Annual conference of Research on the Galilee. Tel Hai College.
- 2018 Multiple Perceptions: Perceiving the Carmel Forest through Multiple Cultural, Political and Disciplinary Lenses. October, 2018. MedPine 6 – Mediterranean Forest Ecosystems: Forestry, Ecology, Conservation and Human use. Hebrew University, Rehovot.

### ***Academic presentations in the context of funded research***

- 2014 Long Term Ecological Research in Israel: Vision, Concept, Realization (poster). Annual Meeting of International LTER, Ancud, Chile
- 2015 Progress report, Work Package 10. ELTER First Project Meeting, Hania, Greece
- 2015 Progress report, Work Package 7. ECO-POTENTIAL Work Package Meeting, Zandvoort, Holland

- 2016 Progress report, Work Package 10. ELTER Second Project Meeting and Annual Meeting of European LTER. Riga, Latvia.
- 2017 Training session, Work Package 7. ECOPOTENTIAL, Amsterdam, Holland
- 2017 Presentation of research progress, ECOPOTENTIAL Workshop meeting on Citizen Science. Pisa, Italy.
- 2017 Core Committee Meeting. ELTER Third Project Meeting. Vienna, Austria.
- 2018 Core Committee Meeting + LTSER training workshop (workshop coordinator). Eilat Israel.