

CURRICULUM VITAE• **Personal Details**

- Birth date and place: November 6, 1960; Israel
- Regular military service: February 1979 - February 1983 (*Major*)
- Married + 2
- Address and telephone number at work:
 - Department of Life Sciences, Ben-Gurion University, Beer Sheva 84105, Israel
 - Tel: +972-8-6461352 (Office); +972-8-6461350 (Lab). Fax: +972-8-6479221
- Address and telephone number at home:
 - 2 Hankan St., POB 588, Lehavim 8533800, Israel
 - Tel: +972-8-6517581 (Home); +972-52-8795920 (Mobile)

ORCID iD : <https://orcid.org/0000-0002-6369-9803>

• **Education**

- B.Sc.** 1988 Tel-Aviv University, Biology
- M.Sc.** 1991 Ben-Gurion University, Life Sciences (Ecology). (*Cum Laude*)
Advisors: Prof. Zvika Abramsky and Prof. Burt Kotler
Title: *Coexistence of two gerbil species based on habitat selection and optimal foraging theories*
- Ph.D.** 1998 University of Arizona, Ecology and Evolutionary Biology
Advisor: Prof. Michael Rosenzweig
Title: *Effects of environmental heterogeneity on species diversity: a new process-based, multi-species, landscape simulation model (SHALOM)*

• **Employment (Academic) History**

- 2020 - present Adjunct Faculty Member, School of Life Sciences, Arizona State University, USA
- 2020 - present Professor, Department of Life Sciences, Ben-Gurion University, Israel
- 2013 Visiting Professor, Dept. Ecosyst. Sci. Manag., Texas A&M University, USA
- 2012 - 2020 Associate Professor, Department of Life Sciences, Ben-Gurion University, Israel
- 2004 - 2012 Senior Lecturer, Department of Life Sciences, Ben-Gurion University, Israel
- 1998 - 2004 Lecturer, Department of Life Sciences, Ben-Gurion University, Israel
- 1998 Research Assistant Professor, Department of Biology, University of New Mexico, USA
- 1998 Visiting Scientist, Santa-Fe Institute (Ecological Complexity), USA

• **Professional Activities**(a) **Positions in academic administration (BGU)**

- 2021 - present Head, School of Sustainability and Climate Change
- 2020 - present Founding Committee, School of Sustainability and Climate Change
- 2014 - present Co-chair, Graduate Program in Ecology and Nature Conservation
- 2014 - 2019 Chair, BGU's 'Green Council' (Moatza Yeruka; "Green Campus")
- 2009 - 2014 Member, BGU's 'Green Council' (Moatza Yeruka; "Green Campus")
- 2005 - 2007 Member, Rector-assigned steering committee for a greater Graduate Program in Ecology

(b) Professional functions outside universities/institutions

- National:
 - 2022 Delegate, The Israeli delegation to the Climate Conference in Sharm A-Shech (COP27)
 - 2021 - present Member, President of Israel's National Forum on Climate
 - 2021 Delegate, The Israeli delegation to the Climate Conference in Glasgow (COP26)
 - 2020 - present Member, Policy Committee for Sustainable (Environmental) Agriculture, Ministry of Agriculture and Rural Development
 - 2014 - 2018 Member, Board of Directors, Israel Society of Ecology and Environmental Sciences
 - 2013 - present Member, Board of Directors, Society for the Protection of Nature in Israel
 - 2013 - 2016 Member, Steering Committee, Zoological Society of Israel
 - 2004 - 2013 Adjunct member, Higher Professional Committee, Nature and Parks Authority
 - 2000 - 2002 Adjunct member, Higher Professional Committee, Nature and Parks Authority
 - 1999 - 2001 Member and conservation representative, Steering Committee, Zoological Society of Israel
- International:
 - 2016 - present Delegate, European Platform for Biodiversity Research Strategy (EPBRS)
 - 2010 - present Member, Man and Biosphere (MAB) Committee, Israel National Commission for UNESCO.

(c) Significant professional consulting

- 2016 - present Scientific Leader, Agroecology Expert Forum: A joint forum of the Israel Society of Ecology and Environmental Sciences and the Institute of Open Landscape.
- 2016 - 2018 Scientific Leader, Steering Committee for agroecological planning in Yoav Regional Council.
- 2007 - 2012 Founder and Leader, Scientific Forum for Assessing the Conservation Status of the Western Negev Sands Region: Towards Operative Conclusions. Inter-university forum in collaboration with the Nature and Parks Authority and the Zoological Society of Israel.
- 2001 - 2004 Consultant, Jewish National Fund (KKL). Ecological planning for Park Begin as a model for a future park planning in Israel
- 2000 Founder and Chair, Animal Road Crossing Committee. The Zoological Society of Israel and the Nature and Parks Authority

(d) Editor or member of editorial board of scientific or professional journal

- 2018 - present Subject (Coordinating) Editor, *Landscape Ecology*
- 2007 - present Subject Editor, *Israel Journal of Ecology and Evolution*

(e) Ad-hoc reviewer for journalsJournals:

American Naturalist, Behavioral Ecology, Catena, Diversity, Diversity and Distributions, Ecography, Ecology, Ecology Letters, Global Ecology and Biogeography, Israel Journal of Ecology and Evolution, Journal of Arid Environments, Journal of Biogeography, Journal of Mammalogy, Landscape Ecology, Oikos, Palaeo, Science

Foundations:*BSF, GIF, ISF, National Geographic*Governmental offices:*Ministry of Agriculture, Ministry of Environmental Protection, Ministry of Science and Technology, Nature and Parks Authority*(f) Membership in professional / scientific societies

1988 – present Zoological Society of Israel
 1998 – 2006 American Society of Naturalist
 1998 – present Ecological Society of America
 2010 – 2016 Society for Conservation Biology
 2012 – present International Union for Landscape Ecology
 2014 – present International Biogeography Society
 2015 – present British Ecological Society
 2016 – present Society of Environmental Indicators

• Educational / Teaching Activities(a) Courses taughtInternational:* *Environmental Protection and Sustainability*[#] – An international Massive Open<https://vimeo.com/208005756>

On-line Course (edX platform). Developing and leading.

Fall 2017 – **1,758** Enrolled students; 41 Verified students; 134 CountriesSpring 2018 – **2,653** Enrolled students; 20 Verified students; 121 CountriesFall 2018 – **4,258** Enrolled students, 79 Verified students; 156 CountriesSpring 2019 – **3,233** Enrolled students, 537 Verified; 156 CountriesFall 2019 – **3,641** Enrolled students, 1,070 Verified; 150 CountriesSpring 2020 – **4,966** Enrolled students, 1,197 Verified; 153 CountriesFall 2020 – **1,029** Enrolled students, 350 Verified; 92 CountriesSpring 2021 – **1,051** Enrolled students, 350 Verified; 104 Countries

Including BGU students

* Workshop - *Metapopulation dynamics: from theory to practical use:*Graduate level (\approx 20 participants);

BioMove Research Training Group; University of Potsdam, Germany

April, 2017

Israel:(1) *Introductory Ecology:*Undergraduate level (departmental mandatory course; \approx 140 students);

Ben-Gurion University, Department of Life Sciences;

Fall 2000, Spring 2001, Fall 2002, Fall 2003, Fall 2004, Fall 2005, Fall 2006,

Fall 2008, Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2014, Fall 2015

(2) *Spatial Ecology:*Graduate level (\approx 15 students);

Ben-Gurion University, Department of Life Sciences;

Spring 1999, Spring 2000, Fall 2000, Spring 2002, Spring 2003, Spring 2004,

Spring 2007, Spring 2009, Spring 2011, Spring 2014, Spring 2016, Spring 2018,

Spring 2020, Spring 2022

(3) *Macroecology:*

Advanced undergraduate and graduate level (12 students);

Ben-Gurion University, Department of Life Sciences;

Spring 2005

- (4) Ecology Camp B:
Advanced undergraduate level (4-20 students);
Ben-Gurion University, Department of Life Sciences;
Spring 2000, Spring 2002, Spring 2003, Spring 2004, Spring 2005, Spring 2006,
Spring 2007, Spring 2008, Spring 2011, Spring 2012, Spring 2014, Spring 2015,
Spring 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2020
- (5) Graduate-Student Seminar:
Graduate level;
Ben-Gurion University, Department of Life Sciences;
Fall 1998, Spring 1999, all semesters – 2015-2020
- (6) Instructive Reading:
Advanced undergraduate and graduate level;
Ben-Gurion University, Department of Life Sciences;
Spring 1999, Fall 1999, Spring 2000, Spring 2002
- (7) Ecosystems and Conservation in Israel:
Advanced undergraduate level
Ben-Gurion University, Department of Life Sciences;
Spring 2012, Spring 2015
- (8) Topics in Environmental Issues, Sustainability and Conservation (coordinator and lecturer):
A 'Green-Campus' leading course on diverse topics by different lecturers.
Ben-Gurion University, Department of Life sciences;
Spring 2016, Spring 2017
From Fall 2017 – in conjunction of the MOOC-**Environmental Protection and Sustainability** (above): Fall 2017 (351 BGU students); Spring 2018 (1,481 BGU students); Fall 2018 (1,092 BGU students); Spring 2019 (502 BGU students); Fall 2019 (1,023 BGU students); Spring 2020 (766 BGU students), Fall 2020 (320 BGU students), Spring 2021 (302 BGU students), Fall 2021 (652 BGU students)
- (9) Selected Topics in Contemporary Ecology:
Rothschild-Wiezmänn program: Masters degree in Science Teaching for leading high-school biology teachers of the Israeli education system.
Weizmann Institute, Department of Science Teaching / Feinberg Campus;
Spring 2010, Spring 2012, Fall 2013
- (10) Conservation Ecology:
Rothschild-Wiezmänn program: Masters degree in Science Teaching for leading high-school biology teachers of the Israeli education system.
Weizmann Institute, Department of Science Teaching / Feinberg Campus;
Spring 2016, Spring 2018
- (b) Research students and Post-doctoral Fellows
- Post-doctoral Fellows:
- | | |
|-----------------|-----------------------|
| (1) 1998 - 1999 | Dr. Selcuk Yurtsever |
| (2) 2008 - 2011 | Dr. Itamar Giladi |
| (3) 2014 - 2016 | Dr. Guy Rotem |
| (4) 2017 - 2020 | Dr. Giorgi Kozhoridze |
- Doctorate Students:
- | | |
|-----------------|---|
| (1) 2000 - 2008 | Ido Filin, <u>Ph.D. student (Combined track; Kreitman Fellowship)</u> . |
| (2) 2002 - 2008 | Yoni Belmaker, <u>Ph.D. student (Combined track; with Prof. Nadav Shashar; Kreitman Fellowship; Rothschild Fellow for year 2008-2009)</u> |
| (3) 2005 - 2011 | Gal Yaacobi, <u>Ph.D. student (with Prof. Ofer Ovadia, BGU)</u> . |

- (4) 2006 - 2014 Yoni Gavish, Ph.D. student (Combined track).
- (5) 2007 - 2014 Guy Rotem, Ph.D. student (with Prof. Amos Bouskila, BGU).
- (6) 2008 - 2014 Udi Columus, Ph.D. student (with Prof. Haim Tsoar, BGU).
- (7) 2008 - 2019 Yoav Avneon, Ph.D. student.
- (8) 2010 - 2021 Itai Renan, Ph.D. Student (at Tel-Aviv University; with Dr. Amnon Firedberg).
- (9) 2012 - 2019 Irith Aloni, Ph.D. student.
- (10) 2016 - present Talia Gabay, Ph.D. student (Combined track; with Dr. Osnat Gillor).
- (12) 2017 - present Yaniv Shmuel, Ph.D. student (with Dr. Buki Rinkevich).
- (13) 2019 - present Lital Ozeri, Ph.D. student (with Prof. Ofer Ovadia).
- (14) 2020 - 2022 Nathan Levi, Ph.D. student (with Prof. Arnon Karnieli and Dr. Tarin Paz-Kagan)
- (15) 2021 - present Klil Noy, Ph.D. student (with Prof. Arnon Karnieli)

Masters Students:

- (1) 1999 - 2003 Naomi Hill, M.Sc. student.
- (2) 2000 - 2003 Arnon Tsairi, M.Sc. student. (Incomplete.)
- (3) 2000 - 2004 Udi Sogavker, M.Sc. student.
- (4) 2002 - 2004 Gillie Pragai, M.Sc. student.
- (5) 2001 - 2004 Gal Yaacobi, M.Sc. student.
- (6) 2002 - 2005 Elad Topel, M.Sc. student (with Prof. Uri Shanas, Univ. of Haifa).
- (7) 2004 - 2007 Dafna Kaufman, M.Sc. student (with Dr. Gila Kachila Bar-Gal, The Hebrew University).
- (8) 2004 - 2008 Zeev Bin (Shachar), M.Sc. student (with Prof. Nadav Shashar).
- (9) 2006 - 2009 Yoav Bartan, M.Sc. student (with Prof. Ofer Ovadia).
- (10) 2009 - 2012 Anat Tzafrir, M.Sc. student.
- (11) 2014 - 2016 Amir Glick, M.Sc. student (with Dr. Eli Zaady, Agricultural Research Organization, Ministry of Agriculture).
- (12) 2014 - 2017 Kesem Kazes, M.Sc. student.
- (13) 2014 - 2019 Merav Shemsh, M.Sc. student.
- (14) 2016 - 2022 Tomer Karni, M.Sc. student.
- (15) 2017 - 2020 Tom Zylberberg, M.Sc. student.
- (16) 2018 - 2021 Naama Rachamim, M.Sc. student.
- (17) 2018 - 2021 Matan Markfeld, M.Sc. student.
- (18) 2018 - 2022 Etai Oshinski, M.Sc. student.
- (19) 2020 - 2023 Segev Tamir, M.Sc. student (with Prof. Tal Svoray).
- (20) 2020 - present Tamar Shabi, M.Sc. student (with Prof. Nadav Shashar).
- (21) 2021 - present Shir Fuchs, M.Sc. student (with Prof. Arnon Karnieli).

Undergraduate-Project Students:

- (1) 1998 - 1999 Orna Shimoni, B.Sc. project student.
- (2) 1999 - 2000 Udi Sogavker, B.Sc. project student.
- (3) 2001 - 2002 Cher Ashtamker, B.Sc. project student.
- (4) 2002 - 2003 Noam Ben-Moshe, B.Sc. project student.
- (5) 2003 - 2004 Yamit Tal, B.Sc. project student.
- (6) 2005 - 2006 Reichan Niv, B.Sc. project student.
- (7) 2005 - 2006 Michal Shilo, B.Sc. project student (with Dr. Tamar Keasar).
- (8) 2005 - 2006 Udi Ron, B.Sc. project student (with Dr. Tamar Keasar).
- (9) 2006 - 2007 Tamar Harel, B.Sc. project student (with Dr. Nadav Shashar).
- (10) 2011 - 2012 Ziv Weitz, B.Sc. project student.
- (11) 2015 - 2016 Naama Shachter, B.Sc. project student.
- (12) 2016 - 2017 Tom Zylberbeg, B.Sc. project student.
- (13) 2016 - 2017 Naama Rachamim, B.Sc. project student.
- (14) 2018 - 2019 Noam Zurek, B.Sc. project student.

- (15) 2018 - 2019 Goni Barki, B.Sc. project student.
- (16) 2018 - 2019 Yalin Divinski, B.Sc. project student.
- (17) 2019 - 2020 Peleg Jakubovits, B.Sc. project student.
- (18) 2018 - 2020 Sharon Moscovitz, B.Sc. project student.
- (19) 2020 - 2021 Ophir Gidron, B.Sc. project student.
- (20) 2021 - 2022 Stav Biran, B.Sc. project student.
- (21) 2021 - 2022 Ofir Elhadaf, B.Sc. project student.

- **Awards, Citations, Honors, Fellowships**

- (a) **Honors, citation awards**

- (1) 1990 Best-student presentation award at the Israel Society of Zoology conference.
- (2) 1991 Dean of the Faculty of Natural Sciences' M.Sc. award, Ben-Gurion University.
- (2) 1991 The Israeli Knesset's (Parliament) Educational Committee award for best students of the Israeli Academia.
- (4) 1997 Hoshaw award for excellence (best-student award), Department of Ecology and Evolutionary Biology, University of Arizona.

- (b) **Fellowships**

- (1) 1991 - 1992 Blaustein Institute for Desert Research Scholarship, Ben Gurion University.
- (2) 1996 Research Teaching Group for Biological Diversification fellowship, University of Arizona.

- **Scientific Publications**

- (a) **Chapters in collective volumes**

1. **Ziv, Y.** and Smallwood, J. A. 2000. Gerbils and Heteromyids - interspecific competition and the spatio-temporal niche. In: *Activity Patterns in Small Mammals*. (H. S. Halle and N. C. Stenseth, eds.). Pp. 159-176. Ecological Studies 141. Springer, Berlin.
2. **Ziv, Y.**, Rosenzweig, M. L. and Holt, R. D. 2005. SHALOM: A landscape simulation model for understanding biodiversity. In: *Biodiversity in Drylands* (M. Shachak and J. R. Gosz, eds.). Oxford University Press.
3. Hakalehto, E., Godia, P., del Amo, R. and **Ziv, Y.** 2018. Some connections and "meeting points" of microbial ecology with zoological ecology. In: *Microbiological Environmental Hygiene* (E. Hakalehto, ed.). Nova Publisher, New York.

- (b) **Refereed articles and refereed letters in scientific journals**

- PI=Principal Investigator; S=Student; PD=Post-doctoral fellow; C=Co-researcher; T=Technician/laboratory assistant.

- Paper information: (citations=ISI citations; IF=Impact Factor; xx/yy=Journal ranking/category; Q=Quartile)

1. **Ziv^S, Y.**, Abramsky^{PI}, Z., Kotler^{PI}, B. P. and Subach^T, A. 1993. Interference and temporal and habitat partitioning in two gerbil species. *Oikos* 66:237-246. (163 citations; IF=1.860; 18/86; Q1)
2. **Ziv^S, Y.**, Kotler^{PI}, B. P., Abramsky^{PI}, Z. and Rosenzweig^C, M. L. 1995. Foraging efficiencies of competing rodents: why do gerbils exhibit shared-preference habitat selection? *Oikos* 73:260-268. (42 citations; IF=1.860; 18/86; Q1)

3. Ziv^S, Y. and Bronstein^{PI}, J. L. 1996. Infertile seeds of *Yucca schottii*: a beneficial role for the plant in the yucca-yucca moth mutualism? *Evolutionary Ecology* 10:63-76.
(25 citations; IF=1.830;49/90; Q3)
4. Bronstein^{PI}, J. L. and Ziv^S, Y. 1997. Costs of two non-mutualistic associates in a yucca/yucca moth mutualism. *Oecologia* 112:379-385.
(22 citations; IF=1.837; 19/86; Q1)
5. Ziv^S, Y. 1998. The effect of habitat heterogeneity on species-diversity patterns: A community-level approach using an object-oriented landscape simulation model (SHALOM). *Ecological Modelling* 111:135-170.
(27 citations; IF=0.614; 64/89; Q3)
6. Rosenzweig^{PI}, M. L. and Ziv^S, Y. 1999. The echo pattern of species diversity: pattern and processes. *Ecography* 22:614-628.
(92 citations; IF=1.209; 40/89; Q2)
7. Ziv^S, Y. 2000. On the scaling of habitat specificity with body size. *Ecology* 81:2932-2938.
(10 citations; IF=3.650; 7/97; Q1)
8. Ovadia^S, O., Ziv^S, Y., Abramsky^{PI}, Z., Pinshow^C, B. and Kotler^{PI}, B. P. 2001. Harvest rates and foraging strategies in Negev desert gerbils. *Behavioral Ecology* 12:219-226.
(26 citations; IF=2.424; 8/110; Q1)
9. Ziv^S, Y. 2003. Predicting patterns of mammalian species diversity from a process-based simulation model. *Journal of Mammalogy* 84:1-19.
(1 citations; IF=1.207; 27/108; Q1)
10. Ziv^{PI}, Y. and Kotler^{PI}, B. P. 2003. Giving-up densities of foraging gerbils: the effect of interspecific competition on patch use. *Evolutionary Ecology* 17:333-347.
(20 citations; IF=2.043;33/105; Q2)
11. Filin^S, I. and Ziv^{PI}, Y. 2004. New theory of insular evolution: unifying the loss of dispersability and body-mass change. *Evolutionary Ecology Research* 6:115-124.
(22 citations; IF=1.548; 46/107; Q2)
12. Ziv^{PI}, Y. and Tsairi^S, A. 2004. The species richness-productivity relationship: time to stop searching for a "true" pattern? *Community Ecology* 5:177-180.
(N/A; IF=0.553; 96/114; Q4)
13. Israely^S, N., Ziv^{PI}, Y. and Oman^{PI}, S. 2005a. Spatiotemporal distribution patterns of Mediterranean fruit fly (Diptera: Tephritidae) in the central region of Israel. *Annals of Entomological Society of America* 98:77-84.
(22 citations; IF=1.025; 24/66; Q2)
14. Belmaker^S, J., Shashar^{PI}, N. and Ziv^{PI}, Y. 2005. Effects of small-scale isolation and predation on fish diversity on experimental reefs. *Marine Ecology Progress Series* 289:273-283.
(23 citations; IF=2.546; 16/100; Q1)
15. Abramsky^{PI}, Z., Rosenzweig^{PI}, M. L., Elbaz^S, M. and Ziv^C, Y. 2005. Does interspecific competition from congeners cause the scarcity of *Gebillus henleyi* in productive sandy desert habitats? *Journal of Animal Ecology* 74:567-578.
(7 citations; IF=3.399; 3/114; Q1)
16. Israely^S, N., Ziv^{PI}, Y. and Galun^{PI}, R. 2005b. Metapopulation spatial-temporal distribution patterns of Mediterranean fruit fly (Diptera:Tephritidae) in a patchy environment. *Annals of Entomological Society of America* 98:302-308.
(21 citations; IF=1.025; 24/66; Q2)
17. Shanas^{PI}, U., Abu Galyun^C, Y., Alshamli^C, M., Cnaani^{PD}, J., (Ucitel) Guscio^T,

- D., Khoury^C, F., Mitler^S, S., Nassar^C, K., Shapira^S, I., Simon^C, D., Sultan^C, H., Topel^S, E. and Ziv^C, Y. 2006. Reptile diversity and rodent community structure across a political border. *Biological Conservation* 132:292-299. (15 citations; IF=2.854; 12/144; Q1)
18. Yaacobi^S, G., Ziv^{PI}, Y. and Rosenzweig^C, M. L. 2007a. Effects of interactive scale-dependent variables on beetle diversity patterns in a semi-arid agricultural landscape. *Landscape Ecology* 22:687–703. (35 citations; IF=2.061; 33/137; Q1)
19. Belmaker^S, J., Ben-Moshe^S, N., Ziv^{PI}, Y. and Shashar^{PI}, N. 2007a. Determinants of the steep species-area relationship of coral reef fishes. *Coral Reefs* 26:103-112. (18 citations; IF=2.227; 15/85; Q1)
20. Keasar^{PI}, T., Sadeh^S, A., Shilo^S, M. and Ziv^{PI}, Y. 2007. Social organization and pollination efficiency in the carpenter bee *Xylocopa pubescens* (Hymenoptera: Apidae: Anthophoridae). *Entomologia Generalis* 29:225-236. (1 citations; IF=0.387; 64/74; Q4)
21. Belmaker^S, J., Polak^S, O., Shashar^{PI}, N. and Ziv^{PI}, Y. 2007b. Geographic divergence in the relationship between *Paragobiodon echinocephalus* and its obligate coral host. *Journal of Fish Biology* 71:1555-1561. (1 citations; IF=1.404; 15/40; Q2)
22. Yaacobi^S, G., Ziv^{PI}, Y. and Rosenzweig^C, M. L. 2007b. Habitat fragmentation may not matter to species diversity. *Proceedings of the Royal Society B* (London) 274:2409-2412. (39 citations; IF=4.112; 7/71; Q1)
Editor's Choice – The whole is the sum of the parts. *Science*. Vol. 317 (5841), 24 August 2007.
23. Belmaker^S, J., Ziv^{PI}, Y., Shashar^{PI}, N. and Connolly^{PI}, R. S. 2008. Regional variation in the hierarchical partitioning of diversity in coral-dwelling fishes. *Ecology* 89:2829-2840. (36 citations; IF=4.874; 11/123; Q1)
24. Geraldés^S, A., Basset^C, P., Gibson^C, B., Smith^C, K. L., Harr^C, B., Yu^C, H.-T., Bulatova^C, N., Ziv^C, Y. and Nachman^{PI}, M. W. 2008. Inferring the history of speciation in house mice from autosomal, X-linked, Y-linked and mitochondrial genes. *Molecular Ecology* 17:5349-5363. (149 citations; IF=5.325; 6/123; Q1)
25. Belmaker^S, J., Ziv^{PI}, Y., and Shashar^{PI}, N. 2009. Habitat patchiness and predation modify the distribution of coral-dwelling damfish. *Marine Biology* 156:447-454. (12 citations; IF=1.999; 19/88; Q1)
26. Segev^S, U., and Ziv^{PI}, Y. 2009. Seed augmentation has a limited effect on species diversity of sand-dwelling ants. *Israel Journal of Entomology* 39:147-157. (N/A)
27. Shanas^{PI}, U., Galyun^C, Y. A., Alshamliah^C, M., Cnaani^{PD}, J., (Ucitel) Guscio^T, D., Khoury^C, F., Mittler^S, S., Nassar^C, K., Shapira^S, I., Simon^C, D., Sultan^C, H., Topel^S, E. and Ziv^C, Y. 2011. Landscape and a political border determine desert arthropods distribution. *Journal of Arid Environments* 75:284-289. (7 citations; IF=1.723; 92/204; Q2)
28. Belmaker^S, J., Ziv^{PI}, Y. and Shashar^{PI}, N. 2011. The influence of connectivity on richness and temporal variation of reef fishes. *Landscape Ecology* 26:587-597. (15 citations; IF=3.061; 6/44; Q1)

29. Giladi^{PD}, I., Ziv^{PI}, Y., May^S, F. and Jeltsch^{PI}, F. 2011. Scale-dependent determinants of plant species density in a semi-arid fragmented agro-ecosystem. *Journal of Vegetation Science* 22:983–996. (53 citations; IF=2.770; 3/59; Q1)
30. May^S, F., Giladi^{PD}, I., Ziv^{PI}, Y. and Jeltsch^{PI}, F. 2012. Dispersal and diversity – unifying scale-dependent relationships within the neutral theory. *Oikos* 121:942-951. (15 citations; IF=3.322; 32/136; Q1)
31. Gavish^S, Y., Ziv^{PI}, Y. and Rosenzweig^C, M. L. 2012. Decoupling fragmentation from habitat loss for spiders in patchy agricultural landscapes. *Conservation Biology*, 26:150-159. (33 citations; IF=4.355; 13/210; Q1)
32. Segev^S, U. and Ziv^{PI}, Y. 2012. Consequences of behavioral vs. numerical dominance on foraging activity of desert seed-eating ants. *Behavioral Ecology and Sociobiology* 66:623-632. (11 citations; IF=2.752; 13/151; Q1)
33. May^S, F., Giladi^{PD}, I., Ristow^T, M., Ziv^{PI}, Y. and Jeltsch^{PI}, F. 2013. Metacommunity, mainland-island system or island communities? Assessing the regional dynamics of plant communities in a fragmented landscape. *Ecography* 36:1-12. (31 citations; IF=4.207; 6/42; Q1)
34. May^S, F., Ristow^T, M., Giladi^{PD}, I., Ziv^{PI}, Y. and Jeltsch^{PI}, F. 2013. Plant functional traits respond to interacting gradients of precipitation and habitat fragmentation. *Perspectives in Plant Ecology, Evolution and Systematics* 15:304-318. (45 citations; IF=3.324; 29/199; Q1)
35. Rotem^S, G., Giladi^{PD}, I., Ziv^{PI}, Y. and Bouskila^{PI}, A. 2013. Wheat fields as an ecological trap for reptiles in a semiarid agroecosystem. *Biological Conservation* 167:349-353. (26 citations; IF=4.036; 20/216; Q1)
36. Giladi^{PD}, I., May^S, F., Rostow^T, M., Jeltsch^{PI}, F. and Ziv^{PI}, Y. 2014. Scale-dependent species-area and species-isolation relationships – a review and a test study from a fragmented semi-arid agro-ecosystem. *Journal of Biogeography*, 41:1055-1069. (21 citations; IF=4.59; 3/46; Q1)
37. Rotem^S, G., Gavish^S, Y., Shacham^T, B., Giladi^C, I., Bouskila^C, A. and Ziv^{PI}, Y. 2016. Combined effects of climatic gradient and domestic livestock grazing on reptile community structure in a heterogeneous agro-ecosystem. *Oecologia* 180:231-242. (16 citations; IF=3.130; 41/153; Q2)
38. Rotem^{PD}, G. and Ziv^{PI}, Y. 2016. Crop diversity and rotation may increase dispersal opportunities of reptiles in a heterogeneous agroecosystem. *Agriculture, Ecosystems and Environment*, 235:32-37. (8 citations; IF=4.099; 1/56; Q1)
39. Gavish^S, Y. and Ziv^{PI}, Y. 2016. Joint effect of habitat identity and spatial distance on spiders' community similarity in a fragmented transition zone. *PLOS ONE* 11:e0173326. DOI: <https://doi.org/10.1371/journal.pone.0168417>. (8 citations; IF=2.806; 15/64; Q1)
40. Gavish^S, Y. and Ziv^{PI}, Y. 2017. Species-occupancy distribution removes excessive parameter from species-area relationship. *Journal of Biogeography*, 44:937-949. (0 citations; IF=4.154; 7/49; Q1)

41. Bergholz^S, K., May^C, F., Giladi^C, I., Ristow^T, M., Ziv^{PI}, Y. and Jeltsch^{PI}, F. 2017. Environmental heterogeneity drives fine-scale species assembly and functional diversity of annual plants in a semi-arid environment. *Perspectives in Plant Ecology, Evolution and Systematics*, 24:138-146. (37 citations; IF=2.82; 48/223; Q1)
42. Aloni^S, I., Markman^C, S. and Ziv^{PI}, Y. 2017. February precipitation in the wintering grounds of the Lesser Whitethroat, *Sylvia curruca*: is it a cue for migration onset? *Royal Society Open Science*, 4:160755, DOI: <http://dx.doi.org/10.1098/rsos.160755>. (5 citations; IF=2.504; 16/64; Q1)
43. Bergholz^S, K., May^C, F., Ristow^T, M., Giladi^C, I., Ziv^{PI}, Y. and Jeltsch^{PI}, F. 2017. Two Mediterranean annuals feature high within-population trait variability and respond differently to a precipitation gradient. *Basic and Applied Ecology*, 25:48-58. (10 citations; IF=2.144; 75/160; Q2)
44. Dengler^{PI} et al. (350 collaborators) 2018. GrassPlot – a database of multi-scale plant diversity in Palaeartic grasslands. *Phytocoenologia*. DOI: [10.1127/phyto/2018/0267](https://doi.org/10.1127/phyto/2018/0267). (28 citations; IF=1.721; 89/223; Q2)
45. Gavish^C, Y., Giladi^C, I. and Ziv^{PI}, Y. 2019. Partitioning species and environmental diversity in fragmented landscapes- do beta and gamma components match? *Biodiversity and Conservation*, 28:769-786. (7 citations; IF=2.828; 13/57; Q1)
46. Ziv^{PI}, Y. and Davidowitz^{PI}, G. 2019. When landscape ecology meets physiology: Effects of habitat fragmentation on physiological trade-offs. *Frontiers in Ecology and Evolution*, e137. DOI: <https://doi.org/10.3389/fevo.2019.00137>. (12 citations; IF=2.686; 62/165; Q2)
47. Aloni^S, I., Markman^C, S. and Ziv^{PI}, Y. 2019. Autumn temperatures at African wintering grounds affect body condition of two passerine species during spring migration. *PLOS ONE*, e0217619. DOI: <https://doi.org/10.1371/journal.pone.0217619>. (5 citations; IF=2.766; 15/64; Q1)
48. Chase^{PI}, M.J., Liebergesell^{PI}, M., Travis^C, K.B., Berg^C, A., Brosi^C, B.J., Cadotte^C, M., Delgado^C, L.C., Chiarello^C, A.G., Cosson^C, J-F., Cresswell^C, W., Dami^C, F.D., Dauber^C, J., Dickman^C, C.R., Didham^C, R.K., Gavish^C, Y., Gerstner^C, K., Gibson^C, D., Gonçalves-Souza^C, T., Guadagnin^C, D.L., Henry^C, M., Knight^C, T.M., Neckel-Oliveira^C, S., Manu, S., Martensen^C, A.C., May^C, F., McCollin^C, D., Meyer^C, C., Nogueira^C, A-d-A., Jean-Marc Pons^C, J-M., Raheem^C, D.C., Ramos^C, F.N., Sam^C, K., Stireman^C, J.O. III and Ziv^C, Y. 2019. FragSAD: A database of diversity and species abundance distributions from habitat fragmentation studies. *Ecology*, 11. DOI: <https://doi.org/10.1002/ecy.2861>. (2 citations; IF=4.285; 27/165; Q1)
49. Müller^S, C.M., Linke^C, B., Strickert^C, M., Ziv^C, Y., Giladi^C, I. and Gemeinholzer^{PI}, B. 2020. Comparative genomic analysis of three co-occurring annual Asteraceae along micro-geographic fragmentation scenarios. *Perspectives in Plant Ecology, Evolution and Systematics*, 42:125486. DOI: <https://doi.org/10.1016/j.ppees.2019.125486>. (1 citations; IF=2.524; 63/228; Q2)
50. Giladi^{PI}, I. and Ziv^{PI}, Y. 2020. The efficacy of species-area relationship to indicate fragmentation effects varies with grain size and heterogeneity.

- Ecological Indicators*, 110:105904. DOI: <https://doi.org/10.1016/j.ecolind.2019.105904>.
(2 citations; IF=4.49; 45/251; Q1)
51. Kazes^S, K., Rotem^C, G. and Ziv^{PI}, Y. 2020. Effects of vineyards and olive plantations on reptiles in a Mediterranean agroecosystem. *Herpetologica*, 76:414-422, <https://doi.org/10.1655/0018-0831-76.4.414>
(4 citations; IF=1.284; 76/168; Q2)
 52. Rotem^S, G., Giladi^C, I., Bouskila^C, A. and Ziv^{PI}, Y. 2020. Scale-dependent correlates of reptile communities in natural patches within a fragmented agroecosystem. *Landscape Ecology*, 35:2339-2355. DOI: <https://link.springer.com/article/10.1007/s10980-020-01091-9>.
(5 citations; IF=3.385; 44/200; Q1)
 53. Pragai-Olswang^S, G. and Ziv^{PI}, Y. 2021. Scale-independence in beetle species diversity-productivity relationship: The importance of heterogeneity arrangement in space. *Israel Journal of Ecology and Evolution*, in press.
(0 citations; IF=0.375; 166/169; Q4)
 54. Levi^S, N., Hillel^{PD}, N., Zaady^C, E., Rotem^C, G., Ziv^C, Y., Karnieli^C, A., and Paz-Kagan^{PI}, T. 2021. Soil quality index for assessing phosphate mining restoration in a hyper-arid environment. *Ecological Indicators*, in press.
(4 citations; IF=4.49; 45/251; Q1)
 55. Aloni^S, I., Ziv^{PI}, Y. and Markman^{PI}, S. 2021. Age- and sex-specific strategies of spring migration in the masked shrike are reflected in a differential response to winter climate conditions. *Climate Change Ecology*, 2:100028.
(0 citations; IF=N/A; N/A; N/A. New journal)
 56. Gabay^S, T., Rotem^C, G., Gillor^{PI}, O. and Ziv^{PI}, Y. 2022. Understanding changes in biocrust communities following phosphate mining in the Negev Desert. *Environmental Research*, 207:112200.
(1 citations; IF=8.431; 21/210; Q1)
 57. Halle^S, S., Garrido^C, M., Noy^S, K., Messika, I., Kedem^C, H., Cohen^S, C., Ytzhak^C, K., Siegal^T, Z., Shenbrot^C, G., Zvika Abramsky^C, Z., Ziv^C, Y., Karnieli^C, A. and Hawlena^{PI}, H. 2022. Cascading effects of sand stabilization on pathogen communities: connecting global and local processes. *Global Ecology and Biogeography*, 31:215-232.
(0 citations; IF=6.909; 3/48; Q1)
 58. Shmuel^S, Y., Ziv^{PI}, Y. and Rinkevich^{PI}, B. 2022a. Strahler Ordering Analyses on Branching Coral Canopies: *Stylophora pistillata* as a Case Study. *Journal of Marine Science and Engineering* 10:121.
(1 citations; IF=2.744; 4/16; Q1)
 59. Markfeld^S, M., Rotem^C, G. and Ziv^{PI}, Y. 2022. A network approach for analyzing arthropod diversity and natural patches prioritization in a fragmented agroecosystem. *Landscape Ecology*, accepted.
(0 citations; IF=5.043; 7/48; Q1)
 60. Shmuel^S, Y., Ziv^{PI}, Y. and Rinkevich^{PI}, B. 2022b. Coral-inhabiting *Trapezia* crabs forage on demersal plankton. *Frontiers in Marine Science*, accepted.
(0 citations; IF=5.247; 6/113; Q1)
 61. Shmuel^S, Y., Ziv^{PI}, Y. and Rinkevich^{PI}, B. 2022c. *Trapezia* crabs that dwell in distinctive day/night canopy compartments of a marine animal forest, forage on demersal plankton. *Journal of Marine Science and Engineering*, accepted.
 62. Tigreros^{PD}, N., Kozhoridze^{PD}, G., Davidowitz^{PI}, G. and Ziv^{PI}, Y. 2023. Influence of the direct and indirect effects of landscape fragmentation, via microclimate change, on animal locomotion. *Landscape Ecology*, accepted.

63. Zylberberg^S, T., Rotem^C, G. and Ziv^{PI}, Y. 2023. Studying soil seed banks and vegetation establishment of phosphate mining fields in the hyper-arid Negev desert. *Restoration Ecology*, in revision.
64. Gabay^S, T., Petrova^S, E., Gillor^{PI}, O., Ziv^{PI}, Y. and Angel, R. 2023. Only a minority of bacteria grow after wetting in both natural and post-mining biocrusts in a hyperarid, phosphate mine. *EGUsphere* 1-30.

In Hebrew:

65. Rotem^S, G., Bouskila^{PI}, A., Ziv^{PI}, Y. and Giladi^{PD}, I. 2013. Natural patches within an agro-ecosystem: Are they 'stepping stones'? *Ecology and Environment*, 4:73-78.
66. Glick^S, A., Barkai^T, D., Knol^T, Yaacov, Ziv^{PI}, Y., Rotem^{PD}, G. and Zaady^{PI}, E. 2017. Short-term effects of grazing on herbaceous biomass and species diversity in planted Eucalyptus forest at northwestern Negev. *Ecology and Environment*, 3:28-35.

(c) Published scientific reports and technical papers

1. Bachi, A. (Ziv, Y., Chairperson; Abramsky, Z, Bouskila, A., Saltz, D., Inbar, M. Yom-Tov, Y., committee members). 2000. Animal crossing along roads: review and recommendations. The Animal Road Crossing Committee. The Zoological Society of Israel and the Nature and Parks Authority (In Hebrew).
2. Ziv, Y., Tsoar, H. and Zaady, E. 2008. Spatially geomorphologic analysis of the western Negev sands region. Scientific Forum for Assessing the Conservation Status of the Western Negev Sands Region. Ben-Gurion University and the Nature and Parks Authority (In Hebrew).
3. Giladi, I. and Ziv, Y. 2010. Conservation of rare plant species in agricultural mosaics at southern Judea lowlands. Nekudat Chen Foundation (In Hebrew).
4. Rotem, G., Vilan, I., Ben-Haim, U. and Ziv, Y. 2017. Environment friendly Agriculture in 'Yoav' regional council: Integrating existing knowledge and establishing a multi-disciplinary forum for sustainable implementation. Nekudat Chen Foundation (In Hebrew).
5. Brokovich, E., Avisar, A., Adler, U., Adler, D., Ohad, N., Ulanovsky, H., Oron, E., Oren, M., Etinger, E., Elyakim, I., Amdur, L., Endvelt, R., Epel, B., Berry, E., Ben-Hur, M., Ben Haim, U., Braun, Y., Berman, T., Gabay, E., Gavrieli, Y., Gutman, J., Goldstein, A., Dayan, T., Dean, L., Distelfeld, A., Ziv, Y., Haikin, T., Trakhtenbrot, A., Caspi Oron, S., Levine, H., Mayor, S., Miller, H., Mandelik, Y., Manor, S., Segre, H., Skutelsky, O., Perez, S., Chehanovsky, N., Cukierman, G., Kissinger, M., Kachan, A., Rothschild, A., Rotem, D., Ramon, U., Shaltiel Harpaz, L., Sagi, Y., Sagi, H., Schwartz, A., Steinberger, Y., Steiner, N., Shalev Koernblit, D., Shalem, E., Shepon, A., & Shapira, I. 2016. Combining objectives and indices for sustainable agriculture in the frame of direct supports to agriculture. Experts' opinion, The Israel Society of Ecology and Environmental Sciences. pp 52. Available from <http://www.isees.org.il/committee/sustainable-agriculture/>.
6. Gil, H., Ziv, Y., Rotem, G., Ramon, U., Mandelik, Y., Segre, H., Keasar, T., Rotem, D., Shelef, O., Shapira, I., & Levi, A. 2020. Wildlife friendly agricultural practices - Natural habitat patches and field margins – Experts' opinion. The Israel Society of Ecology and Environmental Sciences. pp 30. Available from <https://www.isees.org.il/committee/>

(d) Classified articles and reports

1. Ben-Nathan, G., Bouskila, A., Lubin, Y., Zaady, E., and Ziv, Y. 2006. Comparative biological research at the open space of the NRC (KAMAG) (In Hebrew).

- **Lectures and Presentations at Meetings and Invited Seminars**

- (a) Invited plenary lectures at conferences/meetings

- 2004 “Emergent species diversity patterns from basic ecological principles using a process-based population model”. Metabolic Basis of Ecology. Gordon Research Conference, Maine, USA.
 - 2006 “SHALOM: A spatially-explicit population model for exploring biodiversity patterns”. Modeling Approaches in Biodiversity Research Conference. Sde Boqer, Israel.
 - 2009 “The sandy habitat in Israel as an opportunity to test macroecological patterns and processes – A uniquely local advantage”. Sands in Israel: Policy and Management Conference. Beer Sheva, Israel.
 - 2016 "Biodiversity-friendly agriculture and land-sharing at different scales: from conceptual ideas to practice". Symposium on Sustaining ecosystem function for future agriculture and forestry - science in service for the coming generations. University of Helsinki, Finland (Keynote lecture)
 - 2017 “Environment and agriculture? Agroecology as environmental and social opportunity”. The Annual Meeting of Sustainability. Achva College. (Keynote lecture)
 - 2017 “Species diversity indices (indicators) for community ecology and conservation”. 22nd International Conference on Environmental Indicators. Helsinki, Finland.
 - 2018 “Biodiversity patterns across agroecological scales: The case study of southern Judea Lowlands”. Ministry of Agriculture, Agroecology Conference. Volcani Center, Israel

- (b) Presentation of papers at conferences/meetings (oral or poster)

- Ziv, Y. 1990. "Habitat distribution and mechanisms of coexistence of two sympatric rodents - *Gerbillus allenbyi* and *G. pyramidum*". Zoological Society of Israel's annual meeting. Tel Aviv, Israel. (Oral). **Best student presentation award.**
 - Ziv, Y. 1991. "Temporal and spatial patterns of *Gerbillus allenbyi* and *G. pyramidum*, and their implication on the mechanism of coexistence". Zoological Society of Israel's annual meeting. Tel Aviv, Israel. (Oral)
 - Kotler, B. P., Brown, J. S., Ziv, Y., and Blaustein, L. 1992. "Optimal patch use in gerbils: the effect of harvest rates, energetic costs, predation costs, and missed-opportunity costs". Ecological Society of America's annual meeting. Hawaii, USA. (Oral)
 - Ziv, Y., Abramsky, Z., and Kotler, B. P. 1992. "Interference and temporal and habitat partitioning in two gerbil species". Ecological Society of America's annual meeting. Hawaii, USA. (Poster)
 - Ziv, Y., Abramsky, Z., and Kotler, B. P. 1992. "Foraging efficiencies of gerbils as underlying causes for their shared preference habitat selection". 6th International Theriological Congress. Sydney, Australia. (Poster)
 - Ziv, Y. 1993. "Foraging efficiencies of gerbils as underlying causes for their shared preference habitat selection". Ecological Society of America's annual meeting. Madison, USA. (Poster)
 - Ziv, Y., and Bronstein, J. L. 1993. "Infertile seeds: a role in the *Yucca schottii* pollination mutualism?". Southwest Association of Biologists meeting, Portal, USA. (Poster)
 - Ziv, Y., and Bronstein, J. L. 1994. "Do infertile seeds of a yucca plant have a function in the yucca-moth mutualism?" Ecological Society of America's annual meeting, Knoxville. USA. (Poster)
 - Ovadia, O. and Ziv, Y. 1996. "Harvest rates in Negev Desert gerbils". Association for the Study of Animal Behaviour's annual meeting. UK. (Oral)

- Ziv, Y. 1996. "The effect of habitat heterogeneity on community characteristics and species diversity: A landscape simulation model". Ecological Society of America's annual meeting. Providence, USA. (Oral)
- Ziv, Y. 1997. "Body-size dependent patterns predicted by a process-based landscape simulation model". Ecological Society of America's annual meeting. Albuquerque, USA. (Oral)
- Ziv, Y. 1998. "Dynamic spatiotemporal, large-scale ecological simulation model for species composition and diversity patterns". Conference on Linking Spatial and Temporal Scales in Paleoecology and Ecology, joint by the Geological and Ecological Societies of America. Solomons, USA. (Poster)
- Ziv, Y. 1998. "The effect of habitat heterogeneity on species diversity: A community-level, process-based, object-oriented landscape simulation model (SHALOM)". Zoological Society of Israel's annual meeting. Haifa, Israel. (Oral)
- Ziv, Y., Rosenzweig, M. L., and Holt, R. D. 1999. "SHALOM: A landscape simulation model for understanding biodiversity". A symposium on Biodiversity in Drylands: Towards a Unified Framework and Identification of Research Needs. Blaustein Institute for Desert Research, Israel. (Oral)
- Ziv, Y. and Shimoni, O. 1999. "Body-size dependent species distribution of Israeli mammals in different ecological scales". Zoological Society of Israel's annual meeting. Tel Aviv, Israel. (Oral)
- Ziv, Y. and Shimoni, O. 2000. "Body-size dependent species distribution of Israeli mammals on different ecological scales". Ecological Society of America's annual meeting. Snowbird, USA. (Oral)
- Filin, I. and Ziv, Y. 2002. "A new theory of insular evolution". Zoological Society of Israel's annual meeting. Tel Aviv, Israel. (Oral)
- Sogavker, U. and Ziv, Y. 2003. "The influence of productivity on ant species diversity and assemblage at regional and local scales". British Ecological Society's annual meeting. York, UK. (Poster)
- Ziv, Y. 2003. "The search for the "true" species – productivity pattern: the danger of looking for shortcuts". Zoological Society of Israel's annual meeting. Sde Boqer, Israel. (Oral)
- Filin, I. and Ziv, Y. 2004. "A new theory of insular evolution". Metabolic Basis of Ecology. Gordon Research Conference, Maine, USA. (Poster)
- Yaacobi, G., Ziv, Y. and Rosenzweig, M. L. 2004. "The effect of patchiness and heterogenic landscape on species diversity in the southern Judea lowland region, Israel". Ecological Society of America's annual meeting. Portland, USA. (Oral)
- Belmaker, J., Shashar, N. and Ziv, Y. 2004. "Why do remote coral reefs have high fish diversity? The effect of isolation on predation in a marine system". 10th International Coral Reef Symposium. Okinawa, Japan. (Poster)
- Pragai, G. and Ziv, Y. 2004. "Is the beetle-species diversity – productivity relations, in the sandy habitat of Israel, scale-dependent?" British Ecological Society's annual meeting. UK. (Poster)
- Yaacobi, G., Ziv, Y. and Rosenzweig, M. L. 2005. "The effect of patchiness and heterogenic landscape on species diversity in the southern Judea lowland region, Israel". Ecological Society of America's annual meeting. Montreal, Canada. (Poster)
- Yaacobi, G., Ziv, Y. and Rosenzweig, M. L. 2005. "The effect of patchiness and landscape heterogeneity on beetle species diversity in a semi-arid agricultural region". International Conference on Multifunctionality of Landscapes. Giessen, Germany. (Oral)
- Ziv, Y. 2006. "Perspectives in the species-area relationship: Scales and processes". Zoological Society of Israel's annual meeting. Rehovot, Israel. (Oral)
- Yaacobi G., Ziv, Y. and Rosenzweig, M. L. 2006. "Fragmentation may not matter to species diversity. Zoological Society of Israel's annual meeting. Rehovot, Israel. (Oral)

- Yaacobi G., Ziv, Y. and Rosenzweig, M. L. 2006. "Effects of interactive scale-dependent variables on beetle diversity patterns in a semi-arid agricultural landscape". The Role of Invertebrates in Ecosystem Function and Services Symposium". Sde-Boker, Israel. (Oral)
- Shanas, U., Abu Galyun, Y., Ashlimlih, M., Cnaani, J., Khury, F., Mittler, S., Nassar, K., Shapira, I., Simon, D., Sultan, H., Topel, E., Ucitel, D. and Ziv, Y. 2006. "Human societies and rodent community structure along the Israeli-Jordanian border". Society for Conservation Biology's annual meeting. San Jose, USA. (Oral)
- Topel, E., Shanas, U. and Ziv, Y. 2006. "Green islands in arid environments: the effect of artificially productive patches on beetle assemblages in arid environment". Society for Conservation Biology's annual meeting. San Jose, USA. (Oral)
- Yaacobi, G., Kaufman, D., Chikatunov, V., Kahila Bar-Gal, G., Ziv, Y. and Ovadia, O. 2007. "The effect of temporal variability on the genetic and phenotypic diversity of darkling beetle populations along geographical gradient". Israel Entomological Society's annual meeting. Rehovot, Israel. (Oral)
- Gavish, Y., Ziv, Y. and Lubin, Y. 2008. "Scale-dependent patterns of spiders community structure similarities in Southern Judea Lowlands, Israel". Zoological Society of Israel's annual meeting. Michmoret, Israel. (Oral)
- Gavish, Y., Ziv, Y. and Lubin, Y. 2008. "Scale-dependent patterns of spiders community structure similarities in Southern Judea Lowlands, Israel". Israeli Entomological Society's annual meeting. Jerusalem, Israel. (Oral). **Second place winner of best Masters student presentation award.**
- Gavish, Y., Ziv, Y. and Lubin, Y. 2008. "Scale-dependent patterns of spiders' species diversity and community structure in a fragmented semi-arid agro-ecosystem: preliminary results". The 3rd Israeli arachnological meeting. Ramat Hanadiv, Israel. (Oral).
- Giladi, I., Jeltsch, F. and Ziv, Y. 2009. "Effect of patch size, habitat heterogeneity and sampling unit on plant species diversity at Southern Judea lowlands". Israel Society of Ecology and Environmental Quality Studies annual meeting. Rehovot, Israel. (Oral).
- Gavish, Y., Ziv, Y. and Lubin, Y. 2009. "Scale-dependent patterns of spider community structure at Southern Judea lowlands". Israel Society of Ecology and Environmental Quality Studies annual meeting. Rehovot, Israel. (Oral).
- Giladi, I., May, F., Jeltsch, F. and Ziv, Y. 2009. "Scale of measurement affects the relative contribution of various mechanisms for explaining plant species richness in semi-arid agroecosystem". The GfÖ annual conference. Bayreuth, Germany. (Oral).
- May, F., Jeltsch, F., Giladi, I. and Ziv, Y. 2009. "Dispersal limitation and diversity – linking response pattern and scales". Ecological Society of Germany, Austria and Switzerland's (GfO) annual meeting. Bayreuth, Germany. (Oral).
- Gavish, Y., Ziv, Y. and Lubin, Y. 2010. "Masking large-scale patterns by local conditions - can stratified analysis help?". Israel Society of Ecology and Environmental Quality Studies annual meeting. Beer-Sheva, Israel. (Oral). **Best student presentation award.**
- Ziv, Y. 2010. "Directions and opportunities in landscape ecology". Symposium on Spatial Ecology, Israel Society of Ecology and Environmental Sciences annual meeting. Beer-Sheva, Israel. (Oral)
- Giladi, I. and Ziv, Y. 2010. "Conserving unique habitats for endangered species in the agroecosystem of Judea Lowlands". Israel Society of Ecology and Environmental Quality Studies annual meeting. Beer-Sheva, Israel. (Oral)
- Giladi, I., Ziv, Y., May, F. and Jeltsch, F. 2010. "Scale-dependent determinants of plant species density in a semiarid agro-ecosystem". Ecological Society of America's annual meeting. Pittsburgh, USA. (Poster)

- May, F., Jeltsch, F., Giladi, I. and Ziv, Y. 2010. "Mainland-usland system or metacommunity?". Ecological Society of Germany, Austria and Switzerland's (GfO) annual meeting. Giesen, Germany. (Oral)
- Columbus, U., Ziv, Y. and Tsoar, H. 2010. "Ecological restoration of the western Negev dune system: conceptual model and a management-oriented study". Third conference on drylands, deserts and desertification. Sde Boqer, Israel. (Oral)
- Gavish, Y. and Ziv, Y. 2011. "Can a stratified analysis at the local-scale reduce masking of large-scale pattern by local-scale differences?". US-International Association of Landscape Ecology's annual meeting. Portland, USA. (Oral)
- Ziv, Y., Gavish, Y. and Rosenzweig, M.L. 2011. "Decoupling fragmentation from area loss: an analysis of spider biodiversity in a patchy agro-ecosystem". US-International Association of Landscape Ecology's annual meeting. Portland, USA. (Poster)
- Giladi, I., Rotem, G., Gavish, Y. and Ziv, Y. 2011. "Plants, spiders and reptiles in the fragmented biosphere land at southern Judea lowlands – ecotone location for different trophic levels". Israel Society of Ecology and Environmental Quality Studies annual meeting. Megido, Israel (Oral)
- May, F., Jeltsch, F., Ristow, M., Giladi, I. and Ziv, Y. 2011. "Response of plant functional traits to interacting gradients of precipitation and habitat". Ecological Society of Germany, Austria and Switzerland's (GfO) annual meeting. Oldenburg, Germany. (Oral)
- Columbus, U. Ziv, Y. and Tsoar, H. 2011. "Restoration ecology of the western-Negev dunes system in light of Land-use changes: aeolian activity and faunal responses". Society of Ecological Restoration's annual meeting. Madera, Mexico. (Oral)
- Rotem, G., Ziv, Y., Bouskila, A. and Giladi, I. 2011. "Landscape-oriented analysis of reptile species richness and diversity in a fragmented agroecosystem in Israel". British Ecological Society's annual meeting. Sheffield, UK. (Oral)
- Columbus, U., Ziv, Y. and Tsoar, H. 2011. "Ecological restoration of the Western-Negev dunes System in light of land-use changes: Aeolian activity and faunal responses". Minerva Gentner Symposium on Aeolian Processes. Eilat, Israel. (Oral).
- Gavish, Y., Ziv, Y. and Rosenzweig, M.L. 2011. "Decoupling fragmentation from area loss: an analysis of spider biodiversity in a patchy agro-ecosystem". European Congress of Arachnology (ECA), Sede-Boker, Israel. (Oral)
- Avneon, Y. and Ziv, Y. 2011. "Spatial analysis of road-induced fragmentation: wildlife road-kill patterns". Zoological Society of Israel's annual meeting. Tel Aviv. (Oral)
- Gavish, Y. and Ziv, Y. 2011. "Occupancy based null-model for species area relationship". Zoological Society of Israel's annual meeting. Tel Aviv (Oral)
- Columbus, U. and Ziv, Y. 2011. "Ecological restoration: Trends and advances in the world and case study from Israel -- Ecological restoration of the Western-Negev dunes System". Zoological Society of Israel's annual meeting. Tel Aviv. (Oral)
- Ziv, Y., Gavish, Y. and Rosenzweig, M.L. 2011. "Decoupling fragmentation from area loss: an analysis of spider biodiversity in a patchy agro-ecosystem". Zoological Society of Israel's annual meeting. Tel Aviv. (Poster)
- Renan, I., Ziv, Y. and Freidberg, A. 2012. "A systematic revision of *Graphipterus serrator* group (Coleoptera: Carabidae: Lebiinae), preliminary results". Taxonomy, Biodiversity and Beyond: Global Change Science, Tel-Aviv, Israel. (Poster)
- Gavish, Y. and Ziv, Y. 2012. "Determinants of true alpha, beta and gamma diversities of spiders in a fragmented landscape – a combinatorial network approach". Exploratory conference on the mathematics of biodiversity, Centre De Recerca Matematica, Barcelona, Spain. (Oral)
- Renan, I., Ziv, Y. and Freidberg, A. 2012. "Two sympatric *Graphipterus serrator* group species (Coleoptera: Carabidae: Lebiinae), a case study for coexisting

- mechanism". The annual meeting of the Royal Entomological Society. Cambridge, UK. (Oral)
- Avneon, Y. and Ziv, Y. 2012. "Effects of roads on wildlife: Spatial analysis of road-kill patterns". 3rd European Congress of Conservation Biology. Glasgow, Scotland. (Oral)
- Ziv, Y., and Gavish, Y. 2012. "An ecotone pattern is revealed only after controlling for spatial blurring effects". Ecological Society of America's annual meeting, Portland, USA. (Poster)
- Gavish, Y. and Ziv, Y. 2012. "Occupancy-based null-model for species area relationship". Ecological Society of America's annual meeting, Portland, USA. (Oral)
- Columbus, U., Ziv, Y. and Tsoar, H. 2012. "Ecological restoration of the Western-Negev dune system in light of land-use changes: Aeolian activity and faunal response". Ecological Society of America's annual meeting, Portland, USA. (Oral)
- Avneon, Y. and Ziv, Y. 2012. "Effects of roads on wildlife: Spatial analysis of road permeability patterns". IENE 2012 international conference. Potsdam-Berlin, Germany. (Oral)
- Ziv, Y., Giladi, I., Yaacobi, G., Gavish, Y., Rotem, G., May, F., Ristow, M., Sigal, Z. and Jeltsch, F. 2012. "Scale-dependent and multi-scale effects of species diversity patterns in a highly fragmented landscape along a sharp climatic gradient". EcoSummit 2012. Columbus, USA. (Oral)
- Columbus, U., Ziv, Y. and Tsoar, H. 2012. "Ecological restoration of the Western-Negev dune system in light of land-use changes: Aeolian activity and faunal response". Israel Society of Ecology and Environmental Sciences' annual meeting. Tel-Aviv, Israel. (Oral)
- Avneon, Y. and Ziv, Y. 2012. "Spatial analysis of road permeability to wildlife movement". Israel Society of Ecology and Environmental Sciences' annual meeting. Tel-Aviv, Israel. (Oral)
- Gavish, Y. and Ziv, Y. 2012. "Null models for species-area relationship". Israel Society of Ecology and Environmental Sciences' annual meeting. Tel-Aviv, Israel. (Oral)
- Rotem, G., Ziv, Y. and Bouskila, A. 2012. "Do natural patches in agricultural matrix serve as stepping stones? *Mabuya vittata* as a case study". Israel Society of Ecology and Environmental Sciences' annual meeting. Tel-Aviv, Israel. (Oral)
- Ziv, Y. 2012. "Spatial Ecology in the world and in Israel: past development, present progress and challenges in the future". Symposium on Spatial Ecology, Israel Society of Ecology and Environmental Sciences annual meeting. Tel-Aviv, Israel. (Oral)
- Ziv, Y. 2013. "Integrating neutral-stochastic and density-dependent deterministic processes for determining ecological community structure". Symposium on Neutrality vs Niche in Ecology, Israel Society of Ecology and Environmental Sciences annual meeting. Rehovot, Israel. (Oral)
- Ziv, Y., Giladi, I., Yaacobi, G., Gavish, Y., Rotem, G., May, F. and Jeltsch, F. 2013. "Multi-scale effects and scale dependency of biodiversity patterns in a heterogeneous landscape along a sharp climatic gradient". International Association of Landscape Ecology's annual meeting, Austin, USA. (Oral)
- Giladi, I., May, F., Ristow, M., Jeltsch, F. and Ziv, Y. 2013. "Scale-dependent species-area and species-isolation relationships". Plant Population Biology conference, Tartu, Estonia. (Oral)
- Ziv, Y., Belmaker, Y., Yaacobi, G. and Gavish, Y. 2013. "Habitat fragmentation – is it indeed so bad?". Israel Society of Ecology and Environmental Sciences' annual meeting. Rehovot, Israel. (Oral)
- Rotem, G., Bouskila, A., Ziv, Y. and Giladi, I. 2013. "Combined effect of climatic gradient and grazing in determining reptile community in heterogeneous agro-

- ecosystem". Israel Society of Ecology and Environmental Sciences' annual meeting. Rehovot, Israel. (Oral)
- Rotem, G. and Ziv, Y. 2014. "Agricultural heterogeneity as a tool for spatial connectivity: Reptiles as a case study". German Ecological Society's annual meeting. Hildesheim, Germany. (Oral)
- Rotem, G. and Ziv, Y. 2014. "Agricultural heterogeneity as a tool for spatial connectivity: Reptiles as a case study". Israel Society of Ecology and Environmental Sciences' annual meeting. Ramat Gan, Israel. (Oral)
- Giladi, I. and Ziv, Y. 2015. "Scale-dependent species-area relationships in a uniform habitat in fragmented Mediterranean grasslands". International Biogeography Society's annual meeting. Bayreuth, Germany. (Poster)
- Guttel Y. and Ziv Y. 2015. "Scale-dependency and species distribution dynamics of snails at Southern Judea Lowlands". German Centre for Integrative Biodiversity Research Center (iDiv). Leipzig, Germany (oral).
- Rotem, G. and Ziv, Y. 2015. "Agricultural heterogeneity as a key tool to protect rich and diverse community within agricultural systems". Israel Society of Ecology and Environmental Sciences' annual meeting. Jerusalem, Israel. (Oral)
- Ziv, Y. 2015. Symposium's organizer and introductory presentation: "Overview: Biodiversity conservation in agroecological systems". Israel Society of Ecology and Environmental Sciences' annual meeting. Jerusalem, Israel. (Oral)
- Ziv, Y. 2015. "Does habitat fragmentation indeed decrease biodiversity?". International Association of Landscape Ecology World Congress. Portland, USA. (Oral)
- Ziv, Y. 2015. "Fragmentation *per-se* and biodiversity may form a unimodal pattern". 21th International Conference on Environmental Indicators. Windsor, Canada. (Oral)
- Ziv, Y. 2015. "Fragmentation *per-se* and biodiversity may form a unimodal pattern". Ecological Society of America's annual meeting, Baltimore, USA. (Oral)
- Glick, A., Zaady, E. and Ziv, Y. 2016. "Effects of different sheep grazing treatments on herbaceous biomass and species diversity in a semi-arid Eucalyptus forest". German Ecological Society's annual meeting, Marburg, Germany. (Poster)
- Kazes, K. and Ziv, Y. 2016. "Effects of vineyards and olive plantations on reptiles in the agroecosystem of Southern Judea Lowlands". German Ecological Society's annual meeting, Marburg, Germany. (Poster)
- Guttel, Y. and Ziv, Y. 2016. "Scale-dependency and species distribution dynamics of snails at Southern Judea Lowlands". German Ecological Society's annual meeting, Marburg, Germany. (Oral)
- Shemesh, M., Rotem, G. and Ziv, Y. 2016. "Arthropod diversity at the agroecosystem of Southern Judea Lowlands". German Ecological Society's annual meeting, Marburg, Germany. (Oral)
- Rotem, G. and Ziv, Y. 2016. "Agricultural heterogeneity as a key tool to protect rich and diverse community within agricultural systems". German Ecological Society's annual meeting, Marburg, Germany. (Oral)
- Aloni, I., Markman, S. and Ziv, Y. 2016. "February precipitation in the wintering grounds of the Lesser Whitethroat as a migration cue." North American Ornithological Conference 2016. Washington DC, USA. (Oral)
- Aloni, I., Markman, S. and Ziv, Y. 2016. "February precipitation in the wintering grounds of the Lesser Whitethroat, *Sylvia curruca*: is it a cue for migration onset?" Bird numbers 2016 conference. Halle, Germany. (Poster)
- Shemesh, M., Rotem, G. and Ziv, Y. 2016. "Effects of agricultural crops on arthropod diversity in natural habitats at the agroecological landscape of Southern Judea Lowlands". Israel Society of Ecology and Environmental Sciences' annual meeting. Tel Aviv, Israel. (Oral)
- Rotem, G. and Ziv, Y. 2016. Symposium's organizers and introductory presentation: "On the challenge of conserving biodiversity within agricultural matrix". Israel

- Society of Ecology and Environmental Sciences' annual meeting. Tel Aviv, Israel. (Oral)
- Aloni, I., Markman, S. and Ziv, Y. 2016. "February precipitation in the wintering grounds of the Lesser Whitethroat, *Sylvia curruca*: is it a cue for migration onset?" Israel Society of Ecology and Environmental Sciences' annual meeting. Tel Aviv, Israel. (Oral)
- Guttel Y. and Ziv Y. 2016. "Spatial effects on the distribution and community structure of snails in Southern Judean lowlands". Zoological Society of Israel's annual meeting. Rehovot, Israel (Oral).
- Aloni, I., Markman, S. and Ziv, Y. 2016. February precipitation in the wintering grounds of the Lesser Whitethroat, *Sylvia curruca*: is it a cue for migration onset? Zoological Society of Israel's annual meeting. Rehovot, Israel. (Oral)
- Glick, A. Barkai, D. Knoll, Y. Ziv, Y. Rotem, G. and Zaady, E. 2016. "Short-term effects of different sheep and goat grazing intensities on herbaceous biomass and species diversity in a semi-arid Eucalyptus forest" Israel Vegetation Ecology's conference, Tel-Hai, Israel. (Oral)
- Glick, A. Barkai, D. Knoll, Y. Ziv, Y. Rotem, G. and Zaady, E. 2016. "Short-term effects of different sheep and goat grazing intensities on herbaceous biomass and species diversity in a semi-arid Eucalyptus forest" Israel Society of Ecology and Environmental Sciences' annual meeting, Tel-Aviv, Israel. (Oral)
- Aloni, I., Markman, S. & Ziv, Y. 2017. "Temperatures in early autumn at African wintering grounds affect birds' body condition during spring migration in three passerine species". European Ornithological Conference. Turku, Finland. (Poster)
- Halle, S., Garrido, M., Paz, T., Siegal, Z., Ziv, Y., Karnieli, A. and Hawlena, H. 2017 "From sand stabilization to parasitic communities infecting wild vertebrates". 3rd International Congress on Parasites of Wildlife. South Africa.
- Ziv, Y. 2017. "How does species richness change with fragmentation (per-se)?" Life, the Universe, Darwin, and Everything: Evolutionary Ecology in the 21st Century. Tucson, AZ, USA. (Oral)
- Aloni, I., Markman, S. and Ziv, Y. 2017. "February precipitation in the wintering grounds of the Lesser Whitethroat as a migration cue". Batsheva de Rothschild Workshop on Linking Mechanics and Physiology in Animal Flyers. Kfar Blum, Israel. (Oral)
- Ziv, Y., Giladi, I. and Gavish, Y. 2017. "Partitioning species and environmental diversity in fragmented landscapes: Testing the scale-matching hypothesis". British Ecological Society's annual meeting, Ghent, Belgium. (Oral)
- Rotem, G., Rahamim, N., Sigal, Z. and Ziv, Y. 2017. "Biological pest control by barn owls – not simple as we thought...". British Ecological Society's annual meeting, Ghent, Belgium. (Poster)
- Shemesh, M., Rotem, G. and Ziv, Y. 2017. "Land-sharing at the agroecosystem matrix of Southern Judea Lowlands". British Ecological Society's annual meeting, Ghent, Belgium. (Poster)
- Ziv, Y. 2017. "Crop diversity and rotation may increase reptile biodiversity in an agroecosystem". Workshop: Agrobiodiversity to Support Agroecology. 1st Agroecology Europe Forum. Lyon, France. (Oral)
- Ziv, Y. 2018. "Studying landscape processes from a scale-dependency perspective". Symposium on Spatial Ecology: From Current Challenges to Future Progress. Israel Society of Ecology and Environmental Sciences annual meeting. Rehovot, Israel. (Oral)
- Gabay, T., Gillor, O., Rotem, G. and Ziv, Y. 2018. "Bacterial communities of rehabilitated biological soil crusts in desert phosphate mines". Ecology of Soil Microorganisms. Helsinki, Finland. (Poster)
- Aloni, I., Markman, S. & Ziv, Y. 2018. "Wintering conditions differentially shape timing of spring migration of different age and sex categories of the Masked

- Shrike". International Ornithological Congress. Vancouver, Canada. (Speed talk & e-poster)
- Gabay, T., Gillor, O., Rotem, G. and Ziv, Y. 2019. "Understanding changes in biological soil crust bacterial communities in Negev phosphate mines". Israel Society of Ecology and Environmental Sciences' annual meeting. Tel Aviv, Israel (Poster)
- Zylberberg, T., Rotem, G. and Ziv, Y. 2019. "Germination analysis of natural and ecologically-restored sites in phosphate mining fields in Zin Valley, Israel". Israel Society of Ecology and Environmental Sciences' annual meeting, Tel-Aviv, Israel. (Poster)
- Aloni, I., Markman, S. & Ziv, Y. 2019. "Differences in spring migration timing strategies of age and sex categories of the masked shrike". The 20th Annual Science Conference of Research, Study and Creativity at Oranim. Oranim Academic College, Tivon, Israel. (Oral)
- Zylberberg, T., Rotem, G. and Ziv, Y. 2019. "Germination analysis of natural and ecologically-restored sites in phosphate mining fields in Zin Valley, Israel". Israeli Conference for Conservation Science, Haifa, Israel. (Poster)
- Zylberberg, T., Rotem, G. and Ziv, Y. 2019. "Germination analysis of natural and ecologically-restored sites in phosphate mining fields in Zin Valley, Israel". 8th World Conference on Ecological Restoration, Cape Town, South Africa. (Oral)
- Rotem, G. and Ziv, Y. 2019. "Ongoing restoration on phosphate open-pit mining fields. What can we learn from the arthropod community?". 8th World Conference on Ecological Restoration, 8th World Conference on Ecological Restoration. (Oral)
- Ziv, Y. 2019. "Scaling dependency and the scale-matching hypothesis at southern Judea lowlands". MacArthur Academy Conference. Logan UT, USA. (Oral)
- Tigreros, N., Davidowitz, G., Kozhoridze, G. and Ziv, Y. 2019 "Effects of habitat fragmentation on the dispersal ability physiology of a terrestrial beetle". Ecological Society of America's annual meeting, Louisville, USA. (Oral)
- Rotem, G., Rahamim, N., Divinsky, Y. and Ziv, Y. 2019. "Biological Pest Control by Barn Owls". British Ecological Society's annual meeting, Belfast, Northern Ireland. (Oral).
- Ziv, Y., Tigreros, N., Davidowitz, G., Barki, G. and Kozhoridze, G. 2019. "Interactions between scale-dependency and an agricultural matrix determine the response of a tenebrionid beetle to habitat fragmentation". British Ecological Society's annual meeting, Belfast, Northern Ireland. (Poster).
- Kozhoridze, G. and Ziv, Y. 2019. "Effect of climate change on distribution of Angiosperms, Gymnosperms and Ferns in the middle east - past, present, and future". British Ecological Society's annual meeting, Belfast, Northern Ireland. (Oral).
- Gabay, T., Ziv, Y., Gillor, O. and Rotem, G. 2019. "Understanding changes in biological soil crust's bacterial communities in rehabilitated sites of phosphate mines in the Negev Desert". Symposium: Microbes in Restoration. 8th World Conference on Ecological Restoration, Cape Town, South Africa. (Oral)
- Ziv, Y., Kama, E., Volin, S., and Tzvick, Y. 2020. "Teaching high-school students philosophy of science and conservation biology using an ecological workshop at school and in the field". Symposium: Pitching in: Scientists' Involvement in High-School Biology. The annual meeting of the Federation of the Israel Societies for Experimental Biology (ILANIT), Eilat, Israel. (Oral)
- Ziv, Y. 2020. "Promoting environmental activities at BGU". The role of the academia in the current climate crisis. Technion, Haifa, Israel. (Oral).
- Ziv, Y. 2020. "Agricultural landscapes as effective open spaces – the role of agroecology". A disappearing world? The future of open spaces in Israel. The Inter-Disciplinary Center, Hertzelia, Israel. (Oral)
- Ziv, Y., Kozhoridze, G., Tigreros, N. and Davidowitz, G. 2020. "Does habitat fragmentation affect beetle's movement and occupancy in an agroecological

- landscape?" Israel Society of Ecology and Environmental Sciences' annual meeting. On Zoom, Israel.
- Karni, T., Rotem, G, Motro, Y. and Ziv, Y. 2020. "Biological control by barn owls: Effects on environmental factors on reproduction success". Israel Society of Ecology and Environmental Sciences' annual meeting. On Zoom, Israel.
- Markfeld, M. Rotem, G, and Ziv, Y. 2020. "Network analysis of scale-dependent determinants on species diversity and community structure of arthropods in a fragmented agroecosystem". Israel Society of Ecology and Environmental Sciences' annual meeting. On Zoom, Israel

(c) **Presentations at informal international seminars and workshops**

- 1996 Symposium on "Ecological Complexity: Applications, Syntheses, and Challenges". The National Center for Ecological Analysis and Synthesis. Santa Barbara, USA.
- 1997 Working group on the ecological and evolutionary dynamics of species' borders. The National Center for Ecological Analysis and Synthesis. Santa Barbara, USA.
- 1997 Workshop on Echo (an ecologically complex adaptive system simulation). Santa-Fe Institute, USA.
- 1998 Conference on "Linking Spatial and Temporal Scales in Paleoecology and Ecology". Penrose Conference. Maryland, USA.

(d) **Seminar presentations at universities and institutions**

- 1990 "Coexistence mechanisms, based on optimal foraging theory, among two gerbilline rodents in the sandy habitat of the Negev Desert". Mitrani Center of Desert Ecology, Blaustein Institute for Desert Research, Ben Gurion University of the Negev at Sede Boqer, Israel.
- 1992 "Interference and temporal and habitat partitioning of two sympatric gerbilline rodents". Centre for Population Biology, Imperial College, University of London. Ascot, UK.
- 1992 "Interference and temporal and habitat partitioning of two sympatric gerbilline rodents". Department of Ecology and Evolutionary Biology, University of Arizona. Tucson, USA.
- 1996 "Habitat heterogeneity - species diversity patterns: A computer simulation model". Department of Ecology and Evolutionary Biology, University of Arizona. Tucson, USA.
- 1996 "The effect of habitat heterogeneity on species diversity: A landscape computer simulation model". School of Renewable Natural Resources, University of Arizona. Tucson, USA.
- 1996 "Exploring species-diversity patterns with an object-oriented landscape simulation model". Department of Entomology, University of Arizona. Tucson, USA.
- 1996 "The effect of habitat heterogeneity on species diversity patterns: A computer simulation model". Research Training Group for ecological complexity, University of New Mexico, Albuquerque, USA.
- 1997 "The effect of habitat heterogeneity on species diversity: A landscape computer simulation model". Mitrani Center for Desert Ecology, Blaustein Institute for Desert Research, Ben Gurion University of the Negev at Sede Boqer, Israel.
- 1998 "Effects of environmental heterogeneity on species diversity: A new process-based, multi-species, landscape simulation model (SHALOM)". Research Training Group for ecological complexity, University of New Mexico, Albuquerque, USA.

- 1999 “Studying the effect of habitat heterogeneity on species diversity using a process-based, multi-species, landscape simulation model (SHALOM)”. Department of Life Sciences, Ben Gurion University, Beer Sheva, Israel.
- 1999 “Studying the effect of habitat heterogeneity on species diversity using a process-based, multi-species, landscape simulation model (SHALOM)”. Department of Zoology, Tel Aviv University, Tel Aviv, Israel.
- 2000 "Modeling environmental heterogeneity using SHALOM". International School for Desert Studies, Blaustein Institute for Desert Research, Ben-Gurion University, Sde Boqer, Israel.
- 2001 "Large-scale process and patterns: the effect of scaling and habitat heterogeneity". Center of International Cooperation (MASHAV), Blaustein Institute for Desert Research, Ben-Gurion University, Sde Boqer, Israel.
- 2001 “Modeling environmental heterogeneity and the scaling of habitat specificity with body size”. Department of Biological Sciences, University of Illinois at Chicago, Chicago, USA.
- 2002 "Metapopulation dynamics and the exploration of large-scale ecological processes and patterns". Center of International Cooperation (MASHAV), Blaustein Institute for Desert Research, Ben-Gurion University, Sde Boqer, Israel.
- 2005 “Environmental heterogeneity and interactive scale-dependent processes in determining biodiversity”. Department of Evolution, Systematics and Evolution, The Hebrew University, Israel.
- 2005 “Environmental heterogeneity and interactive scale-dependent processes in determining biodiversity”. Plant Ecology and Nature Conservation Research Group, Potsdam University, Potsdam, Germany.
- 2006 “The species diversity-productivity relationship: theoretical and empirical Aspects”. Inter-University Institute for Marine Science, Eilat, Israel.
- 2007 “The species diversity-productivity relationship: theoretical and empirical Aspects”. The Blaustein Institutes for Desert Studies, Ben-Gurion University, Sde Boqer, Israel.
- 2008 “The species diversity-productivity relationship: theoretical and empirical Aspects”. Department of Zoology, Tel-Aviv University, Tel-Aviv, Israel.
- 2008 “Interactive scale-dependent processes in a heterogeneous landscape”. Department of Biology, University of Haifa at Oranim, Tivon, Israel.
- 2012 “Some challenges in spatial ecology: species-area relationship and scale dependency”. Department of Evolutionary and Environmental Biology, University at Haifa, Haifa, Israel.
- 2012 “Scale-dependent and multi-scale effects on biodiversity at Southern Judea Lowlands”. Department of Geography (Physical Geography seminar series), The Hebrew University, Israel.
- 2013 “Multi-scale effects and scale dependency of biodiversity patterns in a heterogeneous landscape along a sharp climatic gradient”. Department of Ecosystem Science and Management, Texas A&M University, College Station, USA.
- 2013 “Science-based conservation: Using species-area relationship for studying scale effect, fragmentation, and hotspots”. Department of Ecosystem Science and Management, Texas A&M University, College Station, USA.
- 2013 “Science-based conservation: Using species-area relationship for studying scale effect, fragmentation, and hotspots”. Department of Biology, Stephen F. Austin State University, Nacogdoches, USA.
- 2014 “Science-based conservation: Species-area relationship”. Department of Geography and Environmental Development, Ben-Gurion University, Beer-Sheva, Israel.
- 2015 “Science-based conservation: Species-area relationship”. Department of Environmental Engineering, Ben-Gurion University, Beer-Sheva, Israel.

- 2015 “Spatially-oriented biodiversity aspects in the agroecosystem of southern Judea lowlands”. Faculty of Agriculture, The Hebrew University, Rehovot, Israel.
- 2016 “Spatially-oriented biodiversity: from landscape ecology to agroecology”. Department of Ecology, Evolution and Behavior, The Hebrew University, Jerusalem, Israel.
- 2016 “Science-based conservation: Species-area relationship”. Department of Biology, Haifa University at Oranim, Kiryat Tivon, Israel.
- 2016 “Spatially-oriented biodiversity: from landscape ecology to agroecology”. Department of Zoology, Tel Aviv University, Tel Aviv, Israel.
- 2017 “Science-based conservation: species-area relationship”. BioMove Research Training Group, University of Potsdam, Germany.
- 2017 “Studying biodiversity in an agroecological landscape: from landscape ecology to agroecology”. Dept. of Geography, Bar Ilan University, Israel.
- 2018 “Do we really use our scientific information for good conservation practices? The case of Species-Area Relationship”. Global Drylands Center, Arizona State University, USA.
- 2019 “Effects of agricultural practices on biodiversity in a land-sharing-oriented heterogeneous agroecosystem”. Agroecology, Institute of Life Sciences, Sant’Anna School of Advances Studies, Italy.
- 2019 “The importance of using a solid ecological and evolutionary knowledge for conservation: The species-area relationship”. Dept. of Life Sciences, Natural History Museum, UK.
- 2019 “Towards biodiversity-friendly agriculture in a heterogeneous agroecosystem: Land sharing and crop rotation”. Agroecology and Environment, Agroscope, Ministry of Agriculture, Switzerland.
- 2020 “Relying on ecological knowledge for conservation: The species-area relationship”. Department of Botany & Plant Sciences, University of California, Riverside, USA.
- 2020 “Scale-dependency and multi-scale effects of biodiversity along a climatic gradient in a heterogenous landscape”. Global Drylands Center, Arizona State University, USA.

(f) Organization of professional conferences

- 2017 (June, 20-21) The Annual Conference for Science and the Environment. Challenges in Environmental Sciences: From Local to Global Scales (An international conference). Organizing committee
- 2011 (June, 21) Geomorphological and Ecological Aspects of the Western Negev’s sands. Joint meeting of BGU and the Nature and Parks Authority.
- 2009 (December, 22) Coping with the Drought: What Should We Do for Conservation? Joint meeting of BGU and the Nature and Parks Authority.
- 2000 (December, 24) The 37th conference of the Zoological Society of Israel, Ben-Gurion University, Beer Sheva.

• Patents

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• Research Grants (major grants only)

* = Active grants

- 1999-2002 International Arid Land Consortium.
Ziv, Y. (PI), Rosenzweig, M. L., and Abramsky, Z.; *The Effect of Increased Productivity on Species Diversity*; 3 years; \$75,000 (\$25,000 annually).
- 1999-2003 Israel Science Foundation.
Ziv, Y. (PI); *The Effect of Environmental Heterogeneity and Dynamic Ecological Processes on Rodent-Diversity Patterns in the Western Negev Desert: Using an Advanced Methodology and Modeling*; 4 years; \$280,000 (\$29,000 for equipment + \approx \$62,000 annually).
- 2001-2003 Jewish National Fund (KKL).
Ziv, Y. (PI); *“Ecological Planning and Management of Park Begin as Model for Park Design in Israel”*; 2 years + continuous funding; (\approx 20,000 NIS annually).
- 2003-2005 International Arid Land Consortium.
Ziv, Y. (PI) and Rosenzweig, M. L.; *“Biodiversity of a fragmented landscape in the Southern Judean Lowland”*; 2.5 years; \$100,000 (\$40,000 annually).
- 2004-2005 Nuclear-Research Center (KAMAG).
Ziv, Y. (PI, Leader), Bouskila, A. (CO), Lubin, Y. (CO) and Zaady, E. (CO); *“Comparative Ecological Research of the Open Area of the Nuclear-Research Center”*; 2 year; 65,000 NIS annually.
- 2007-2008 Ministry of Science – Individual Grant (Thashtiot).
Ovadia, O. (PI) and Ziv, Y. (PI); *“Applying advanced GIS-based methodology and ecological theory for conservation planning and management of endangered species at Agur Sands: Testudo wernerii and Meriones sacramenti”*; 2 years; \$90,000. (Only one year was approved.)
- 2008-2011 German-Israel Foundation.
Ziv, Y. (PI) and Jeltsch, F. (PI); *“Studying plant scale-dependent biodiversity and life-history traits in a heterogeneous landscape using advanced spatially-oriented technology”*; 3 years; EU 240,000.
- 2008-2010 Nature and Parks Authority.
Ziv, Y. (PI) *“Applying a management plan for the conservation and restoration of the western Negev sands habitats”*; 2 years; 120,000 NIS (\approx 60,000 NIS annually).
- 2009-2010 Nekudat Chen.
Ziv, Y. (PI) and Giladi, I. (CO) *“Conserving rare plant species in the agricultural mosaics of the southern Judea lowlands”*; 1 year; 58,000 NIS.
- 2009-2013 Israel Science Foundation.
Ziv, Y. (PI); *“Effects of multiscale environmental variation on scale-dependent spider community structure and species composition”*; 4 years; \approx \$175,000 (\approx \$44,000 annually).
- 2010-2012 International Arid Land Consortium.
Ziv, Y. (PI) and Rosenzweig, M. L. (CO); *“Habitat Restoration of the Western Negev’s Sand-Dune Ecosystem”*; 2 years; \$86,000 (\approx \$43,000 annually).
- 2013-2015 Ministry of Agriculture.
Ziv, Y. (PI); *“Conserving species diversity in the mosaics of agricultural fields and natural habitats at southern Judea lowlands”*; 2 years; \approx 235,000 NIS (\approx \$31,000 annually).
- 2015-2019 Israel Chemicals Ltd (ICL).
Ziv, Y. (PI); *“Ecological restoration of the phosphorous mines”*; 4 years; \approx 1,025,000 NIS (\approx \$65,000 annually).
- 2016-2017 Nekudat Chen.
Ziv, Y. (PI); *“Wildlife-friendly agriculture at Southern Judea Lowlands: Combining current knowledge and forming a new multi-sectorial team for sustainable application”*; 1 year; 85,000 NIS.

- 2017-2020 NSF-IOS-BSF.
Ziv, Y. (PI) and Davidowitz, G. (PI); “*When physiology meets landscape ecology: Effects of landscape fragmentation on physiological tradeoffs*”; 3 years; \$861,228 (American: \$657,228 / Israeli: \$204,000; \$68,000 annually).
- 2018-2020 Ministry of Agriculture.
Ziv, Y. (PI); “*Conserving species diversity in the mosaics of agricultural fields and natural habitats at southern Judea lowlands*”; 3 years; ≈ 495,000 NIS (≈\$44,000 annually).
- *2019-2023 Israel Chemicals Ltd (ICL).
Ziv, Y. (PI); “*Ecological restoration of the phosphorous mines*”; 4 years; ≈1,350,000 NIS (≈\$96,000 annually; including educational activity).
- 2020-2021 BGU Multi-Disciplinary Grant.
Ziv, Y. (PI) and Svoray, T. (PI); “*Embedding geomorphometry and soil hydrology in landscape ecological models to explore species diversity patterns under habitat fragmentation*”; 1 year; 52,000 NIS.
- 2020-2021 Nekuati Chen.
Ziv, Y. (PI) and Rotem, G. (PI); “*The effect of natural habitats and their arthropods on wheat yield in an agroecological system*”; 1 year; 45,000 NIS.
- 2020-2021 Brom / Israel Chemicals Ltd (ICL).
Ziv, Y. (PI); “*Educational Ecological Workshops*”; 1 year; 100,000 NIS.
- 2020-2021 BGU Data Science Perimeter Grant.
Kearar, C. (PI) and Ziv, Y. (PI); “*High throughput data acquisition for arthropod ecoinformatics*”; 1 year; 88,000 NIS
- *2022-2025 Ministry of Energy and Infrastructures.
Ziv, Y. (PI); “*Effects of agro-photovoltaics systems in plantations on biodiversity along the climatic gradient of Israel*”; 3 years; 560,000 NIS
- *2022-2024 Ministry of Justice.
Ziv, Y., Shashar, N. and Yosef, R. (School of Sustainability and Climate Change); “*Educational activities for high school students in southern Israel: ecological workshops and final projects*”; 2 years ~ 1,400,000 NIS (with matching)