OFIR LEVY, Ph.D.
CURRICULUM VITAE

School of Zoology
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Tel Aviv, Israel

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RESEARCH OBJECTIVES

My overall goals are to improve our theoretical and applied understanding of the effects of climate on ecological systems. To this end, I develop ecological and physiological approaches that bring new mechanistic insights into how environments affect organisms. Such insights are crucial for understanding ecological responses to climate change and for developing management and conservation strategies that can help species maintain their ecological niches under future climates.

RESEARCH POSITIONS

2018-present	Senior Lecturer, *Faculty of Life Sciences, Tel Aviv University*
2015-2019	Adjunct Faculty, *School of Life Sciences, Arizona State University*
2011-2015	Post-doctoral Fellow, *School of Life Sciences, Arizona State University*
2010-2011	Post-doctoral Fellow, *Department of Zoology, Tel Aviv University*

EDUCATION

2005-2010	Ph.D. in the direct Ph.D. program for outstanding students, *Department of Zoology, Faculty of Life Sciences, Tel Aviv University*
2001-2004	B.Sc., *Biology, Faculty of Life Sciences, Tel Aviv University*

ACADEMIC AND PROFESSIONAL AWARDS

2014	Young Scientist Mentoring Program for the Gordon Research Conference on Unifying Ecology Across Scales
2010	Merit award from the Zoological Society of Israel in recognition of exceptional Ph.D. presentation
2009	Faculty and Dean's award for excellent teaching assistants, *Faculty of Life Sciences, Tel Aviv University*
2007	Faculty and Dean's award for excellent teaching assistants, *Faculty of Life Sciences, Tel Aviv University*
2002-2004	Faculty and Dean's award for excellent B.Sc. students, *Faculty of Life Sciences, Tel Aviv University*
2002	Rector's award for excellent B.Sc. students, *Tel Aviv University*

Grants and Fellowships

2018-2021	Grant for collaborative work between Israeli and Chinese PIs, funded by the Israeli Science Foundation ($203,000)
2018-2019	Grant for studying "Life Under Extreme Conditions at the Dead Sea," funded by the Porter Foundation, *Tel Aviv University* ($49,650)
2014	Grant for Post-Doctoral Interdisciplinary Research in the Life Sciences, *Arizona State University* ($7,400)
2011	Rothschild Post-Doctoral Fellowship for young scholars of outstanding academic merit and potential to advance in their respective fields, *Yad-Hanadiv* ($40,000)
2005-2009	Ph.D. Scholarship for outstanding graduate students, *Tel Aviv University* ($48,000)
2006	Fulbright Doctoral Dissertation Research Fellowship ($4,000)
2002-2004	B.Sc Scholarship for outstanding students, *Tel Aviv University* ($3,000)
2003	Elad Grenadir's Scholarship for outstanding students, *Tel Aviv University* ($3000)

SCIENTIFIC PUBLICATIONS

Peer-reviewed

1. Angilletta MJ, Sears MW, **Levy O**, Youngblood J, and VandenBrooks JM (2019) Fundamental flaws with the fundamental niche. *Integrative and Comparative Biology*, 59(4): 1038–1048.
2. **Levy O**, Dayan T, Porter WP, and Kronfeld-Schor N (2019) Time and ecological resilience: can diurnal animals compensate for climate change by shifting to nocturnal activity? *Ecological Monographs*, 89(1): e01334.
3. Carlo MA, Riddell EA, **Levy O**, and Sears MW (2018) Recurrent sub-lethal warming decreases embryo survival, inhibits development, and alters species range projections under climate change. *Ecology Letters*, 21: 104–116.
4. **Levy**[†] **O**, Borchert[†] J, Rusch T, Buckley LB, and Angilletta MJ (2017) Diminishing returns reduce energetic costs of climate change. *Ecology*, 98: 1217–1228. [†]first author contribution
5. Basson CH, **Levy O**, Angilletta MJ, and Clusella-Trullas S (2017) Lizards paid a greater opportunity cost to thermoregulate in a less heterogeneous environment. *Functional Ecology*, 31: 856–865.
6. Telemeco RS, Fletcher B, **Levy O**, Riley A, Rodriguez-Sanchez Y, Smith CD, Teague C, Waters A, Angilletta MJ, and Buckley LB (2017) Lizards fail to plastically adjust nesting behavior or thermal tolerance as needed to buffer populations from climate change. *Global Change Biology*, 23: 1075–1084.
7. **Levy O**, Dayan T, Porter WP, and Kronfeld-Schor N (2016) Foraging activity pattern is shaped by water loss rates in a diurnal desert rodent. *The American Naturalist*, 188(2): 205-218.
8. **Levy O**, Buckley LB, Keitt TH, and Angilletta MJ (2016) A dynamically downscaled projection of past and future microclimates. *Ecology*, 97(7): 1888.

9. **Levy O**, Buckley LB, Keitt TH, and Angilletta MJ (2016) Ontogeny constrains phenology: opportunities for activity and reproduction interact to dictate potential phenologies in a changing climate. *Ecology Letters*, 19(6): 620-628.
10. **Levy O**, Buckley LB, Keitt TH, Smith CD*, Boateng KO*, Kumar DS*, and Angilletta MJ (2015) Resolving the life cycle alters expected impacts of climate change. *Proceedings of the Royal Society B*, 282: 2813. *undergraduate mentee
11. **Levy**† **O**, Ball† BA, Bond-Lamberty B, Cheruvelil KS, Finley AO, Lottig N, Punyasena S, Xiao J, Zhou J, Buckley LB, Filstrup CT, Kiett TH, Kellner JR, Knapp AK, Richardson AD, Tcheng D, Toomey M, Vargas R, Voordeckers JW, Wagner T, and Williams JW (2014) Approaches to advance scientific understanding of macrosystems. *Frontiers in Ecology and the Environment*, 12(1): 15-23. †first author contribution
12. **Levy O**, Dayan T, Rotics S, and Kronfeld-Schor N (2012) Foraging sequence, energy intake, and torpor: An individual-based field study of energy balancing in desert golden spiny mice. *Ecology Letters*, 5(11):1240-1248.
13. **Levy O**, Dayan T, Kronfeld-Schor N, and Porter WP (2012) Biophysical modeling of the temporal niche: from first principles to the evolution of activity patterns. *The American Naturalist*, 179(6): 794-804.
14. Gutman† R, Dayan T, **Levy**† **O**, Schubert† I, and Kronfeld-Schor N (2011) The effect of the lunar cycle on stress hormone levels and foraging ecology of nocturnally and diurnally active spiny mice. *PLoS ONE*, 6(8): e23446. †first author contribution
15. **Levy O**, Dayan T, and Kronfeld-Schor N (2011) Interspecific competition and torpor in golden spiny mice: Two sides of the energy acquisition coin. *Integrative and Comparative Biology*, 51(3): 441-448.
16. **Levy O**, Dayan T, and Kronfeld-Schor N (2011) Adaptive thermoregulation in golden spiny mice: The influence of season and food availability on body temperature. *Physiological and Biochemical Zoology*, 84(2): 175-184.
17. Rotics S, Dayan T, **Levy O**, and Kronfeld-Schor N (2011) Light masking in the field: an experiment with nocturnal and diurnal spiny mouse species under semi-natural field conditions. *Chronobiology International*, 28(1): 70-75.
18. **Levy O**, Dayan T, and Kronfeld-Schor N (2007) The relationship between the golden spiny mouse circadian system and its diurnal activity: an experimental field enclosures and laboratory study. *Chronobiology International*, 24(4): 599-613.

Forthcoming (manuscripts available upon request)

Wilson RS, **Levy† O**, Pavlic T, Wheatley R, Niehaus AC, Modelling the escape success of prey using metrics of running performance. In revision, *Functional Ecology*. †first author contribution

Levy O, Noronha C, Telemeco RS, Angilletta MJ, Metabolic depression during winter could mitigate impacts of climate change on lizards.

INVITED TALKS

2020 The 7th International Conference of Drylands, Deserts and Desertification, Midreshet Ben-Gurion, Israel
2019 2nd Israeli Conference for Conservation Science, Technion, Israel
2018 Oranim Academic College, Israel
2018 University of Haifa, Israel
2017 Tel Aviv University, Israel
2015 Mitrani Department of Desert Ecology, Midreshet Ben-Gurion, Israel
2014 Gordon Research Seminar, Biddeford, Maine, USA
2013 NSF workshop titled Macrosystems Biology, Arlington, Virginia, USA
2012 Ecological Society of America, Portland, Oregon, USA
2011 Mitrani Department of Desert Ecology, Midreshet Ben-Gurion, Israel

CONTRIBUTED TALKS

2020 Society for Integrative and Comparative Biology, Austin, Texas, USA
2019 Ecological Society of America, Louisville, Kentucky, USA
2019 Society for Integrative and Comparative Biology, Tampa, Florida, USA
2018 10th Symposium on the Lacertids of the Mediterranean Basin & 2nd Symposium on Mediterranean Lizards, Steinhardt Museum of Natural History, Tel Aviv University, Israel
2017 Society for Integrative and Comparative Biology, New Orleans, Louisiana, USA
2016 Gordon Research Conference, Biddeford, Maine, USA
2015 Society for Integrative and Comparative Biology, West Palm Beach, Florida, USA
2014 Society for Integrative and Comparative Biology, Austin, Texas, USA
2013 Society for Integrative and Comparative Biology, San Francisco, California, USA
2013 U.S. Regional Association of the International Association for Landscape Ecology, Austin, Texas, USA
2012 Society for Integrative and Comparative Biology, Charleston, SC, USA
2011 Society for Integrative and Comparative Biology, Salt Lake City, Utah, USA
2010 Sede Boqer Symposium in Memory of Merav Ziv, Midreshet Ben-Gurion, Israel
2010 Zoological Society of Israel, Jerusalem, Israel
2009 Zoological Society of Israel, Rupin academic college, Israel
2006 Zoological Society of Israel, Rehovot, Israel
2005 International Chronobiology School, Chroningen, Haren, Netherlands
2004 Zoological Society of Israel, Haifa, Israel
2004 Society for Research on Biological Rhythms, Whisler, Canada

2004 Zoological Society of Israel, Midreshet Ben-Gurion, Israel

2002 Israel Physiological and Pharmacological Society meeting, Maale Hachamisha, Israel

CONTRIBUTED POSTERS

2014 Society for Integrative and Comparative Biology, Austin, Texas, USA

2011 Society for Integrative and Comparative Biology, Salt Lake City, UT, USA

2011 Theoretical Models in Ecology, Evolution, and Behavior: Recent Advances and Conceptual Issues, Jerusalem, Israel

2010 American Physiological Society Intersociety Meeting: Global Change & Global Science: Comparative Physiology in a Changing World, Westminster, Colorado, USA

2008 International Hibernation Symposium, Swakopmund, Namibia

2007 Zoological Society of Israel, Raanana, Israel

PROFESSIONAL ACTIVITIES

Reviewer for Journals

American Naturalist, Animal Behavior, Biology Letters, Global Change Biology, Ecography, Ecology, Ecology Letters, Functional Ecology, Journal of Arid Environments, Journal of Biogeography, Journal of Animal Ecology, Journal of Comparative Physiology-B, Journal of Mammalogy, Oecologia, Physiological and Biochemical Zoology, Plos ONE, Proceeding of the Royal Society B, Science, Zoology.

Memberships in Professional Societies

2012-present Society for Integrative and Comparative Biology
2010-2019 Ecological Society of America
2003-2011 Zoological Society of Israel

TEACHING AND EDUCATIONAL ACTIVITIES

2019 Instructor, Biostatistics, *Tel Aviv University.*
2018 Instructor, Introduction to R, *Tel Aviv University.*
2016 Instructor, Functional Biogeography course, *Arizona State University*.
2014 Supervising an undergraduate student in a research project, *Arizona State University*: Using remote sensing data to analyze the spatial distribution of vegetation cover at 1 m resolution.
2013-2014 Supervising undergraduate students in a research project, *Arizona State University*: Measuring thermal tolerances of lizard embryos.
2005-2009 Teaching Assistant, physiology laboratories, *Tel Aviv University*.

2004-2005 Supervising undergraduate students in a research project, *Tel Aviv University*: The effects of competition and predation risks on foraging behavior.

2003-2004 Research Assistant, *Tel Aviv University*.