

Curriculum Vitae

Danny Minahan, PhD

Lecturer

Arava Institute for Environmental Studies

Ketura, Israel

Researcher

Department of Plant Sciences and Food Security

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Education

2019 PhD Integrative Biology, University of Wisconsin, Madison, Wisconsin, USA

2012 B.A. with honors, Ecology and Evolutionary Biology, University of Colorado, Boulder, Colorado, USA

Previous employment

2022-2024 Postdoctoral scholar, Hebrew University of Jerusalem, Prof. Sharoni Shafir.

2019-2022 Zuckerman postdoctoral scholar, Hebrew University of Jerusalem, Prof. Sharoni Shafir.

2018 Lecturer Animal Biology, University of Wisconsin

2013-2019 Teaching Assistant, Introductory Biology, University of Wisconsin

Teaching and training

2019 Lecturer for Exploring Biology

2017-2018 Teaching fellow, WISCIENCE, University of Wisconsin

College Science Teaching seminar

Instructional Materials Design seminar

Instructor for Exploring Biology

2018 Effective teaching strategies workshop

2008-2010 Leadership development instructor, National Outdoor Leadership School

Grants, scholarships, and fellowships

2019-2022 Zuckerman Postdoctoral Scholarship (\$52,000/yr. for 3 years)

2015, 2017 University of Wisconsin – John Jefferson Davis Travel Award (\$600)

2016 Garden Club of America Centennial Pollinator Fellowship (\$4000)

2014 University of Wisconsin, Zoology Graduate Research Grant (\$2000)

2011 NSF Research Opportunities for Undergraduates (REU)

Student mentorship

2020-2022 Maya Goren (HUJI: Veterinary School student mentored research)

2020-2022 Itamar Antebi, Michael, and Dolev, summer high school students

2016-2019 Several undergraduate research projects, University of Wisconsin.

Professional service

2022, 2024 Reviewer: Proceedings of the Royal Society-B (2x)
2021 Reviewer: STAR Protocols
2019 Reviewer: Ecology and Evolution
2015-2023 Reviewer: Journal of Insect Science (5x)
2015-2017 Evolution Coordinating Committee / Darwin Day Outreach Co-chair

Peer-reviewed publications

Minahan, D., & Brunet, J. (2025). Pollen collection by the western honeybee and common eastern bumble bee foraging in a common landscape and applications for agri-environment schemes. *Royal Society Open Science*, 12(3). (Journal impact factor 2.9)
Mihalczo, K., Schaafsma, F., Minahan, D., Shafir, S., Duchateau, M. J., & Hendriksma, H. (2025). The influence of age and food quality on pollen collection by honey bees (Hymenoptera: Apidae). *Entomologische Berichten*, 85(5), 179-183. (Article published in Dutch language).
Minahan, D., Goren, M., & Shafir, S. (2024). Unbalanced dietary omega 6:3 ratio affects onset of nursing and nurse-larvae interactions by honey bees (*Apis mellifera*). *Animal Behaviour*. 213.
Minahan D., and Brunet J. (2018). Strong interspecific differences in foraging activity observed between honey bees and bumble bees using miniaturized radio frequency identification (RFID). *Frontiers in Ecology and Evolution*. 6:156.

Book chapters

Brunet, J. and Minahan, D. (2023). Honey bee pollination ecology. in Purdy, J. (editor) *The foraging behavior of the honey bee (Apis mellifera)*. Elsevier

Publications in review and preparation

Rogovin, D., Finkelshtein A., Anikster, Y., Minahan, D., ..., Hadany, L. (submitted May 2026) Isoflurane alters physiological processes in tomato plants, including sound emission, stomatal closure and leaf movement.
Minahan, D., Toubiana, D., Gilad, T., Lepsky, J., ..., Hadany, L. (in prep) Anemone flowers show extended flowering time, larger flowers, and altered metabolism in response to pollinator sound. *Ecology Letters*.
Minahan, D., and Theisen, C. (in prep). Exploring biology core concepts through an ecological case study of trophic cascades. *Course source*.
Minahan, D., and Shafir, S. (in prep). Unbalanced dietary omega-6:3 ratio leads to longer orientation flights and greater lifetime flight duration in honey bees (*Apis mellifera*) *Journal of Animal Ecology*.
Treanore, E., Minahan, D., Amsalem, E., and Shafir, S. (in prep). Unbalanced dietary omega 6:3 ratio impairs reversal color learning in bumble bee queens (*Bombus terrestris*). *Behavioral Ecology and Sociobiology*.
Minahan, D., Hadany, L., (in prep). The sound of dehydration in evening primrose attracts alters the flight and search behavior of moths.

Invited Lectures

November 2025. Arava Institute for Environmental Studies. **Minahan, D.** “Sustaining pollination services in a changing world.”

Presentations and posters

- February 2026. 10-minute oral presentation. Plant Ecology. Eilat, Israel. **Minahan, D.**, Toubiana, D., Gilad, T., Sapir, Y., Hadany, L. “Anemone flowers grow larger, have longer lifespan, and show a distinct metabolite profile in response to pollinator flight sounds.”
- December 2025. 15-minute oral presentation. Plant sciences in a changing world. Ben Gurion University – Sde Boker campus, Israel. **Minahan, D.**, Gilad, T., Yovel, Y., Hadany, L., “Sounds of dehydration stress impact the duration and frequency of moth visits to evening primrose.”
- May 2023. 5-minute oral presentation + poster presentation. From individual to group decision making experiments and theory. **Minahan, D.**, Goren, M., Shafir, S. “Unbalanced dietary omega 6:3 ratio affects the timing of task transitions.”
- Sept 2022. 10-minute oral presentation. EurBee 2022. Belgrade, Serbia. **Minahan, D.**, Shafir, S. “High dietary omega 6:3 decreases larvae nursing activity and accelerates foraging onset.”
- July 2022. Poster presentation. Smart Swarm: Group motion and decision making in experiments and theory. **Minahan, D.**, Shafir, S. “Unbalanced essential fatty acid diet impairs honey bee nursing behavior and accelerates task transitions.”
- May 2022. 15-minute oral presentation. Sde Boker symposium in memory of Merav Ziv. **Minahan, D.**, Shafir, S. “Dietary omega 6:3 ratio affects behavior and decision making in honey bees.”
- October 2021. 10-minute oral presentation. Entomological Society of America. Denver, CO, USA. **Minahan, D.**, Shafir, S. “Omega 6:3 ratio in the diet of young honey bees affects the age at first foraging and lifespan.”
- October 2020. 10-minute oral presentation. Entomological Society of America. Virtual Conference. **Minahan, D.**, Shafir, S. “High ratio of omega 6:3 fatty acids in the diet of honey bees may lead to precocious foraging activity.”
- March 2018. 10-minute oral presentation. Entomological Society of America – North Central Branch. Madison, WI. **Minahan, D.**, Brunet, J. “Comparing the foraging effort of honey bees and bumble bees in a shared landscape.”
- Nov. 2017. 10-minute oral presentation. Entomological Society of America. Denver, CO. **Minahan, D.**, Brunet, J. “Comparing the foraging effort of honey bees and bumble bees through time in a shared landscape.”
- Sept. 2016. 15-minute oral presentation. International Congress of Entomology. Orlando, FL. **Minahan, D.**, Brunet, J. “The relationship between pollen diversity and foraging effort in honey bees and bumble bees.”
- July 2016. Poster presentation. Pollinator Biology, Health, and Policy Conference. State College, PA. **Minahan, D.**, Brunet, J. “Pollen collection and foraging effort of honey bees and bumble bees in a shared landscape.”
- Nov. 2015. Poster presentation. Entomological Society of America. Minneapolis, MN. **Minahan, D.**, Brunet, J. “Comparing the temporal foraging patterns of the European honey bee (*Apis mellifera*) and common eastern bumble bee (*Bombus impatiens*).”