

## EDUCATION

- 2022-Present PhD student in the laboratory of Dr. Omri Bronstein, School of Zoology, Tel Aviv University and the Steinhardt Museum of Natural History. Thesis focuses on evaluating benthic biodiversity along the Israeli Mediterranean. Experience in DNA extraction and amplification, barcoding and metabarcoding techniques and genetic sequence analysis.
- 2019-2022 M.Sc. in Ecology and Environmental Studies in the laboratory of Dr. Omri Bronstein, School of Zoology, Tel Aviv University and the Steinhardt Museum of Natural History. Thesis title: "Population outbreak of the invasive echinoid *Diadema setosum* (Leske, 1778) in the Mediterranean Sea". Experience in citizen science management, DNA extraction and amplification, genetic sequences assembly and performing phylogenetic and morphological analysis.
- 2015-2017 B.Sc. in Animal Sciences, the Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem.
- 2005-2009 Brenner High-School, Giva'at Brenner, Full matriculation

## EMPLOYMENT

- 2018-2019 Research assistant in the laboratory of Prof. Noam Sobel, Department of Neurobiology, Weizmann Institute of Science. Experience in performing ELISA tests, conducting behavioral experiments and sample collection with human subjects.
- 2016-2017 Research assistant in the laboratory of Prof. Nor Chejanovsky, Department of Entomology, Agricultural Research Organization- The Volcani Center. Experience in performing RNA and DNA extraction, cDNA preparation, RT-PCR tests and viral diagnoses.

## TEACHING EXPERIENCE

- 2021- Present Mentoring three bachelor degree students in their academic research project in the Life Sciences Faculty, Tel Aviv University
- 2021- Present Teaching assistant in the undergraduate course "Integrative Laboratory" in the Life Sciences Faculty, Tel Aviv University
- 2018 Performing community outreach activity regarding wildlife conservation and protection while volunteering at the Lilongwe Wildlife Center, Lilongwe, Malawi.
- 2011-2012 Teaching and training professional contents during military service as a combat basic-training platoon sergeant of the CBRN (Chemical, biological, radiological and nuclear) warfare battalion, Combat Engineering Corps, IDF.
- 2010-2011 Teaching professional contents during military service as head instructor of



## Rotem Zirler

18 Hanasi Harishon st.,  
Rehovot  
050-7707035  
rotemzirler@tauex.tau.ac.il

## Certifications and Professional training:

- 2021- Certified as Nitrox (Safe Air) diver, TDI.
- 2013 - Certified as stress and rescue diver, SSI.
- 2013 - Senior certified first responder, Medical Emergency Training Inc.
- 2007- Certified as advance open water diver, PADI.
- 2005-2007 - Veterinary Medicine program, The Hebrew University youth division.

CBRN defense of the northern command, Combat Engineering Corps, IDF.

## PUBLICATIONS

- Ravia, A., Snitz, K., Honigstein, D., Finkel, M., **Zirler, R.**, Perl, O., Secundo, L., Laudamiel, C., Harel, D. and Sobel, N. (2020). A Measure of Smell Enables Creation of Olfactory Metamers. *Nature* 1-6. doi:10.1038/s41586-020-2891-7
- Mishor, E., Amir, D., Weiss, T., Honigstein, D., Weissbrod, A., Livne, E., Gorodisky, L., Karagach, S., Ravia, A., Snitz, K., Karawani, D., **Zirler, R.**, Weissgross, R., Soroka, T., Endevelt-Shapira, Y., Agron, S., Rozenkrantz, L., Reshef, N., Furman-Haran, E., Breer, H., Strotmann, J. and Sobel, N. (2021). Sniffing the Human Body-Volatile Hexadecanal Blocks Aggression in Men but Triggers Aggression in Women. *Science advances*, 7(47), eabg1530.

## AWARDS AND FELLOWSHIPS

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| 2022 | Winning the Shalom Adesman Foundation travel grant  |
| 2022 | Winning the Zoological Society of Israel travel grant   |
| 2021 | Winning the MERCI fellowship for studies focused on the Mediterranean Sea.                          |
| 2017 | Dean's honor, The Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem. |

## ORAL PRESENTATIONS

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| 2022 | Oral Presentations 2022 15th International Coral Reef Symposium (ICRS), hosted in Bremen, Germany      |
| 2022 | The 58th meeting of the Zoological Society of Israel, the Steinhardt Museum of Natural History, Israel |

## MILITARY SERVICE

2009-2012 Combat commander at the CBRN (Chemical, biological, radiological and nuclear) warfare Battalion, Combat Engineering Corps, IDF.  
Experience in managing staff, teaching and training professional contents and handling logistics.

## LANGUAGES

**Hebrew**- Native speaker   **English**- Fluent   **Spanish**- Good verbal skills