

Lachan Roth



Personal Information:

- **ID:** 304959885 | • **Date of Birth:** August 30th 1990 | • **Origin of Birth:** Israel
- **Address:** Eilat, Israel | • **Phone number:** 972-505703900 | • **Email:** lachanroth@gmail.com
- **Familial Status:** Single | • **Israeli and US citizenships** | • **Faculty:** Life Sciences | • **School:** Zoology

Education

- 2021 – Present** **Ph.D. studies** | School of Zoology | Faculty of Life Sciences | Tel-Aviv University
Ph.D. Title: Maintaining genetic diversity in broadcast spawning invertebrates.
Advisor: Dr. Omri Bronstein
- 2019 – 2021** **M.Sc. studies** in Ecology and Environmental Studies | School of Zoology | Faculty of Life Sciences | Tel-Aviv University | ***Magna cum laude***
Thesis: “Life history and Population Dynamics of Fire coral *Millepora* Species in the Red Sea”.
Advisor: Prof. Yossi Loya
- 2015 – 2018** **B.Sc. studies** in Biology | Faculty of Life Sciences | Tel-Aviv University
- 2008** Full matriculation certificate with honors | Ben Gurion High school, Emek Hefer, Israel

Publications

- **Roth, L.***, Eviatar G.*, Schmidt, L.M., Schubert, Bonomo M., Feldstein-Farkash T., Schubert P., Ziegler M., Al-Sawalmih A., Quod J.P. and Bronstein O. Mass mortality of diadematooid sea urchins in the Red Sea and Western Indian Ocean. *Current Biology* **34** DOI: [10.1016/j.cub.2024.04.057](https://doi.org/10.1016/j.cub.2024.04.057)
- Under revision (*Coral Reefs*): **Roth, L.**, Shlesinger, T., & Loya, Y. Reproductive ecology of fire corals in the Red Sea.
- Zirler, R., Schmidt, L.M., **Roth, L.**, Corsini-Foka, M., Kalaentzis K., Kondylatos G., Mavrouleas D., Bardanis E., & Bronstein, O. (2023). Mass mortality of the invasive echinoid *Diadema setosum* in the Mediterranean Sea. *Royal Society Open Science* **10**, 5 DOI: [10.1098/rsos.230251](https://doi.org/10.1098/rsos.230251)
- Rapuano, H., Shlesinger, T., **Roth, L.**, Bronstein, O. & Loya, Y. (2023). Coming of age: Annual onset of coral reproduction is determined by age rather than size. *iScience* **26**, 5 DOI: [10.1016/j.isci.2023.106533](https://doi.org/10.1016/j.isci.2023.106533)
- Gordon, T., **Roth, L.**, Caicci, F., Manni, L. & Shenkar, N. (2020). Spawning induction, development and culturing of the solitary ascidian *Polycarpa mytiligera*, an emerging model for regeneration studies. *Frontiers in Zoology* **17**, 19 DOI: [10.1186/s12983-020-00365-x](https://doi.org/10.1186/s12983-020-00365-x)

Academic Awards

- 2024** **Travel grant** | Travel Fund to honor of Dr. Anat Krauskopf, Shmunis School of Biomedicine and Cancer Research | Tel-Aviv University
- 2024** **Travel grant** | The Zoological Society of Israel
- 2024** **Travel grant** | Mediterranean Sea Research Center of Israel (MERC I)
- 2024** **Best Lecture Award** | 17th meeting of the Israeli Association for Aquatic Sciences
- 2024** **Rector’s list** | Excellence teaching assistant award | Tel-Aviv University
- 2023** **Research grant** | Mediterranean Sea Research Center of Israel (MERC I)
- 2023** **Best Lecture Award** | Ecology Ph.D. student conference | The faculty of Life Sciences, Tel-Aviv University
- 2022** **Best Lecture Award** | the 58th meeting of the Zoological Society of Israel

- 2022** **Travel grant** | Travel Fund to honor of Dr. Anat Krauskopf, Shmunis School of Biomedicine and Cancer Research | Tel-Aviv University
- 2022** **Travel grant** | Adesman foundation | School of Zoology | Tel-Aviv University
- 2022** **Travel grant** | The Zoological Society of Israel
- 2021** **Excellence research accomplishment award** | Faculty of Life Sciences | Tel-Aviv University
- 2021** **Excellence teaching assistant award** | Faculty of Life Sciences | Tel-Aviv University
- 2021** **Women Divers Hall of Fame** – Rachel Morrison Memorial Graduate Scholarship in Marine Conservation for graduate students
- 2020** **The Orly Richter-Ifergan Student Grant** Fund for Zoology graduate students | School of Zoology | Tel-Aviv University

Oral Presentations

- 2024** 17th International Echinoderm Conference, hosted in Tenerife, Spain
- 2024** The 18th conference of the Israel Association for Aquatic Sciences, the Steinhardt Museum of Natural History, Israel
- 2023** Ecology Ph.D. student conference, Tel-Aviv University
- 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

Professional Experience

- 2024 - Present** **Teaching assistant** at the Inter-University Institute for Marine Sciences in Eilat
- 2022 – Present** **Lab manager** in Dr. Omri Bronstein lab including logistic operations, procurement procedures and budget management
- 2023 - Present** **Teaching assistant** in the undergraduate course 'Organisms lab' in the Life Sciences Faculty, Tel-Aviv University
- 2022 - Present** Participation in the "**Bioblitz**" and "**Eco-camp**" extensive marine survey projects in the Mediterranean Sea and the Red Sea, initiated by the Israeli Nature and Park Authorities
- 2021 – 2024** Supervisor at the "Alpha" project, Tel-Aviv Youth University, mentoring two high school students in an academic research project
- 2021 – 2023** **Teaching assistant** in the undergraduate course 'Introduction to Python' in the Life Sciences Faculty, Tel-Aviv University
- 2020 - 2021** **Teaching assistant** and lab instructor in the undergraduate course 'Introduction to Molecular Biology' in the Life Sciences Faculty, Tel-Aviv University
- 2019 - 2021** **Teaching assistant** and lab instructor in the undergraduate courses 'Advanced Invertebrates' and 'Structure and Function in Vertebrates' in the Life Sciences Faculty, Tel-Aviv University
- 2018 – 2019** Cyber Security Analyst Training Manager | PerimeterX
- 2014 - 2018** Protocol researcher | Allot Network Security Solution

Extracurricular Activity

- 2019 – 2024** Member of the student-board in the school of Zoology, Tel-Aviv University
- 2021** Yazamiot – Entrepreneurship program | Tel-Aviv University Entrepreneurship Center
- 2018 – 2020** Birthright Israel Excel– Excellence business leadership program | Class of 2018
- 2017 – 2021** Prowoman – promoting women in the Israeli economy | Class of 2017, Tel-Aviv University
- Knowledge and information manager
 - Management of new opening branches (Sapir collage, Shenkar collage and the Hebrew University in Jerusalem)

- Management of the student program, class of 2018 in Tel-Aviv University

2017 - 2018

Life Sciences faculty representative in the Tel-Aviv University Student Association

2017 - 2018

Instructor and counselor in the ['Walking Together' program](#) for 1st year undergraduate Life Sciences students, insuring a soft entrance to academic studies and university life style

Military Service

Intelligence officer | 8200 unit, Intelligence Forces, IDF | Discharged at the rank of Lieutenant