

Lachan Roth



Personal Information:

- **ID:** 304959885 | • **Date of Birth:** August 30th 1990 | • **Origin of Birth:** Israel
- **Address:** Turmus 37, Kfar Yona, 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

- Undergraduate level research project supervised by Prof. Yossi Loya and Tom Shlesinger “Size vs. Age: Unraveling Mechanisms of Sexual Maturation in The Red Sea Coral *Acropora hyacinthus*”. Final grade: 97
- Undergraduate level research project held in the Inter-University Institute in Eilat, supervised by Prof. Noa Shenkar and Tal Gordon, studying “Reproduction and Development of the Solitary Ascidian *Polycarpa mytiligera*”. Final grade: 98

2008

Full matriculation certificate with honors | Ben Gurion High school, Emek Hefer, Israel

Publications

- In-prep: **Roth, L.**, Shlesinger, T., & Loya, Y. Reproductive ecology of fire corals (*Millepora* spp.) 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

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

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

Professional Experience

- 2022 – Present** **Lab manager** in Dr. Omri Bronstein lab including logistic operations, procurement procedures and budget management
- 2021 – Present** Supervisor at the [“Alpha” project](#), Tel-Aviv Youth University, mentoring two high school students in an academic research project
- 2021 – Present** **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
Full execution of a cyber security analysts training course including responsibilities for professional content, teaching, maintaining course’s schedule and logistics
- 2014 - 2018** Protocol researcher | Allot Network Security Solutions
Communication protocols research, including VPN, HTTPS and video traffic analysis

Professional Skills

- Programming languages: Python | R | SQL
- Fluorescent Microscopy
- Histology processing and analysis
- Diving:
 - Scientific diver – AAUS certification
 - Nitrox diving certification (Safe Air)
 - 150+ scientific research dives

Extracurricular Activity

- 2019 – Present** Member of the [student-board](#) in the school of Zoology, Faculty of Life Sciences, Tel-Aviv University

2021 [Yazamiyot on Campus](#) entrepreneurship program | Tel-Aviv University Entrepreneurship Center

2020 – 2021 Mentor in [Birthright Israel Excel](#) mentoring program

2018 – 2020 [Birthright Israel Excel](#)– Excellence business leadership program | Class of 2018

- Board member, career development leader

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

2017 "[Olim Yehida](#)" – Math instructor of high school students from peripheral regions and low socioeconomic status | voluntarily project founded by 'Microsoft'

Military Service [Officer at 8200 unit, Intelligence Forces, IDF](#) | Discharged at the rank of Lieutenant

2012 – 2013 Computer networks research (unit 8200). Received an [honors certification](#) for performances

2011 – 2012 Commander of a technological-intelligence course (Bahad 15)

2009 – 2010 Technological-intelligence analyst (unit 8200)

Languages

Hebrew – Native | English – Native