

Renana Gershoni Poranne

Assistant Professor

Schulich Faculty of Chemistry – Technion, Israel

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🌐 <https://poranne-group.github.io/>

Professional Experience

March 2025

since 2021 **Assistant Professor** Technion – Israel Institute of Technology
2019-2024 **Branco Weiss Fellow** ETH Zürich, Technion – Israel Institute of Technology
2017-2021 **Group Leader / "Habilitation"** within the group of Prof. Peter Chen, ETH Zürich
2015-2017 **Postdoctoral Researcher** with Prof. Peter Chen, ETH Zürich

Education

2010-2015 **Ph.D.** — Schulich Faculty of Chemistry, Technion, Israel.
Thesis: *Aromatic Systems*
Advisor: Prof. Amnon Stanger
2007-2010 **M.Sc. (Summa cum Laude)** — Schulich Faculty of Chemistry, Technion, Israel.
Thesis: *Novel Corannulene-Aryl Ethers as Pentagonal Building Blocks for Superstructures*
Advisor: Prof. Ehud Keinan
2004-2007 **B.Sc. (Summa cum Laude)** — Schulich Faculty of Chemistry, Technion, Israel.
Major: *Molecular Biochemistry*

Fellowships

2022 Alon Scholarship – Integration of Outstanding Faculty
2021 Horev Fellowship – Leaders in Science and Technology
2019 Branco Weiss Fellowship – Society in Science
2016-2018 The VATAT Fellowship for Excellent Female Post-Doctoral Scholars
2012-2014 The Schulich Fellowship for Excellence in Graduate Studies – Ph.D.
2007-2009 The Schulich Fellowship for Excellence in Graduate Studies – M.Sc.

Honors and Awards

2024 Selected to represent the Organic Chemistry division of EuChemS at the ACS Fall Meeting 2025, Washington, D.C.
2024 The Krill Prize for Excellence in Scientific Research, presented by the Wolf Foundation
2023-2024 Commendation for Excellence in Teaching (*Principles of Chemistry A*, Technion)
2021 Golden Owl Award for Excellence in Teaching (*OC4: Molecular Orbital Theory*, ETH Zurich)
2018 Junior Scientist Participation award to attend the '53rd Bürgenstock Conference'
2017 Poster Award at GRC Physical Organic Chemistry; Poster chosen for talk
2015 The Weissman and Jacknow Prize for Continued Excellence in Teaching
2014 The Schulich Prize for Excellence in Teaching
2014 Vivian Konigsberg Award for Continued Excellence in Teaching
2013 Selected to be a participant in the 63rd Lindau Nobel Laureates Meeting (Chemistry)

2013 Selected to be a participant in the 1st Global Young Scientists Summit, Singapore
 2013 Sandor Szego Award for Excellence in Teaching
 2012 The Schulich Prize for Excellence in Teaching
 2010 Sandor Szego Award for Excellence in Teaching
 2009 Sandor Szego Award for Excellence in Teaching
 2009 The Schulich Prize for Excellence in Teaching
 2008-2009 Sharett Foundation Scholarship for Excellence in Music – Singing
 2008 Vivian Konigsberg Award for Excellence in Teaching
 2007 Schulich Prize for Excellence in Undergraduate Studies
 2007 Knesset (Israeli Parliament) Award for Excellent Undergraduate Students
 2007-2008 Sharett Foundation Scholarship for Excellence in Music – Singing (*with distinction*)
 2004-2007 President of the Technion's Award for Excellence in Studies, 5 semesters (*top 3%*)

Grants

2023-2027 Israel Science Foundation - Personal Grant 1,080,000 NIS
 2023-2027 Israel Science Foundation - New Faculty Equipment Grant 750,000 NIS
 2019-2024 Branco Weiss Fellowship 500,000 CHF

Supervision of Students and Coworkers

Postdoctoral Fellows.....

current Dr. Katarzyna Mlodzikowska-Pienko *Azrieli Postdoctoral Fellow*
 current Dr. Sabyasachi Chakraborty
 current Dr. Amrita Gogoi *Margaret Kaplan Postdoctoral Fellowship in Honor of Judith Kaplan*

Ph.D. Theses.....

current Fatimah Khaleel (Technion)
 2019-2023 Alexandra Wahab (ETH Zürich)

M.Sc. Theses.....

current Itay Almog (Technion)
 2022-2024 Fatimah Khaleel (Technion)
 2022-2024 Eduardo Mayo (Technion)
 2019-2020 Stefan Feusi (ETH Zürich)
 2016-2017 Eno Paenurk (ETH Zürich)

M.Sc. Semester Projects.....

2022 Joel Landis (ETH Zürich)
 2021 Dominic Egger (ETH Zürich)
 2020 Lara Pfuderer (ETH Zürich)
 2019 Greta Markert (ETH Zürich)
 2019 Stefan Feusi (ETH Zürich)
 2018 Patrick Finkelstein (ETH Zürich)

B.Sc. Semester Projects.....

2023-2024 Yair Davidson (Technion, joint project with Computer Science)
 2023-2024 Aviad Philipp (Technion, joint project with Computer Science)
 2023-2024 Sahar Sagy (Technion)

2023-2024 Omri Altman (Technion)

2024 Yaara Pelleg (Technion)

Teaching Experience – Summarized

As Lecturer at Technion.....

Since 2024 Lecturer – *Applied Computational Chemistry*

Since 2022 Lecturer – *Principles of Chemistry A*

Since 2022 Lecturer – *Molecular Orbitals in Organic Chemistry*

As Lecturer at ETH Zurich.....

2018-2021 Lecturer – *Organic Chemistry IV: Physical Organic Chemistry*

As Teaching Assistant at Technion.....

2009-2015 Senior Teaching Assistant – *Principles of Chemistry A; Principles of Chemistry B; Organic Chemistry Expanded 1; Organic Chemistry Expanded 2; Structure Determination by Physical Methods*

2008-2009 Teaching Assistant and Lab Instructor – *Principles of Chemistry A; Principles of Chemistry B*

Oral Presentations at International Conferences

30. (Upcoming – Invited Talk) **Symposium on Frontiers in Organic Chemistry**
Coressia, Greece — September, 2025
29. (Upcoming – Invited Talk) **ACS Fall Meeting 2025 - Young Investigator Workshop**
Washington, D.C., USA — August, 2025
28. (Upcoming – Invited Talk) **ESOR 2025**
Padova, Italy — September, 2025
27. (Upcoming – Invited Talk) **WATOC 2025**
Oslo, Norway — June, 2025
26. (Upcoming – Plenary Talk) **The 37th Molecular Modelling Workshop 2025**
Erlangen, Germany — March, 2025
25. (Invited Talk) **Aromaticity2025**
Merida, Mexico — January, 2025
24. (Invited Talk) **Materials Research Society: Next-generation AI-Catalyzed Scientific Workflow for Digital Materials Discovery**
Massachusetts, USA — December, 2024
23. (Invited Visiting Lectureship) **Liebig College**
Giessen, Germany — September, 2024
22. (Invited Talk) **International Symposium on Novel Aromatics (ISNA 24)**
Toronto, Canada — August
21. (Invited Talk) **Gordon Research Conference Crystal Engineering Meets AI**
Maine, USA — June, 2024
20. (Invited Talk) **Challenges in Computational Homogeneous Catalysis (Chemistry@Sete)**
Sete, France — June, 2024
19. (Invited Talk) **Chemical Compound Space Conference**
Heidelberg, Germany — May, 2024
18. (Invited Talk) **The 10th Virtual Winter School of Computational Chemistry**
Online — January, 2024

17. (Invited Talk) **ELLIS ML4Molecules Workshop**
Online — December, 2023
16. (Invited Talk) **The Beilstein Symposium on Organic Chemistry**
Limberg, Germany — November, 2023
15. (Invited Talk) **European Symposium on Organic Reactivity**
Amsterdam, The Netherlands — September, 2023
14. (Invited Talk) **Gordon Research Conference Physical Organic Chemistry**
Holderness, NH, USA — June, 2023
13. (Invited Talk) **SIMPLAIX Workshop on “Machine Learning for Multiscale Molecular Modeling**
Heidelberg, Germany — May, 2023
12. (Invited Talk) **The 3rd “Carbon” Fusion Conference**
Tulum, Mexico — May, 2023
11. (Invited Talk) **The 2nd International Conference on Excited State Aromaticity and Antiaromaticity**
Hawaii, USA — December, 2022
10. (Invited Talk) **The Batsheva de Rothschild Seminar on Strong Bond Activation**
Ein Gedi, Israel — October, 2022
9. (Invited Talk) **The MAGIC Workshop**
Cambridge, United Kingdom — September, 2022
8. (Invited Talk) **WATOC, the 12th Triennial Congress**
Vancouver, Canada — July, 2022
7. (Invited Talk) **International Conference on Excited State Aromaticity and Antiaromaticity**
Sigtuna, Sweden — September, 2019
6. (Invited Talk) **Aromaticity 2018**
Riviera Maya, Mexico — November, 2018
5. **International Symposium on Reactive Intermediates and Unusual Molecules (ISRIUM)**
M. Verita, Switzerland — May, 2018
4. **IUPAC International Conference on Physical Organic Chemistry (ICPOC)**
Faro, Portugal — July, 2018
3. (Poster Prize Talk) **Gordon Research Conference on Physical Organic Chemistry**
Holderness, NH, USA — June, 2017
2. **Schulich Graduate Students Symposium**
Haifa, Israel — December, 2014
1. **Lise Meitner – Minerva Center for Computational Chemistry Symposium**
Jerusalem, Israel — 2012

Invited Seminar Presentations

2025 University of York
2025 University of Oregon, Eugene
2025 UC Berkeley
2024 University of Regensburg, Germany *presented online*
2024 Justus Liebig University, Giessen
2024 Uppsala University
2024 Stockholm University

2024 Hebrew University in Jerusalem
 2024 Ben-Gurion University of the Negev
 2023 University of Zurich
 2023 University of Helsinki
 2023 ETH Zurich
 2021 Polish Academic of Sciences *presented online*
 2021 Massachusetts Institute of Technology *presented online*
 2021 Florida State University *presented online*
 2019 Vrije Universiteit Amsterdam

Academic Contributions

Editorial Activities.....

Since 2023 Associate Editor of *The Journal of Physical Organic Chemistry*
 Since 2020 Member of the Editorial Advisory Board of *ChemistryOpen*
 2024-2025 Co-editor of the *Prof. Dr. Peter Chen Festschrift*, published by *Helvetica Chimica Acta*
 2021-2022 Co-editor of the *Rosarium Philosophorum on Computational Chemistry*, published by the *Israel Journal of Chemistry*

Organization of Conferences.....

2024-2025 Co-organizer of the Symposium in Honor of Prof. Dr. Peter Chen. Zurich, July 2025.
 2023-2024 Co-director of the 3rd International Conference on Excited State Aromaticity and Antiaromaticity. Croatia, July 2024.
 2024-2026 Member of the Scientific Advisory Board of the 4th International Conference on Excited State Aromaticity and Antiaromaticity
 2023-2024 Member of the Scientific Advisory Board of the 3rd International Conference on Excited State Aromaticity and Antiaromaticity
 2022 Member of the Scientific Advisory Board of the 2nd International Conference on Excited State Aromaticity and Antiaromaticity
 2021-2022 Member of the Scientific Committee of the European Young Chemists' Meeting 2022
 2011-2013 Chairperson of the Organizing Committee, 5th, 6th and 7th Schulich Graduate Symposium
 2009-2010 Member of the Organizing Committee, 3rd and 4th Schulich Graduate Symposium

Reviewing Activities.....

Since 2018 Reviewer for internationally recognized journals (>70 individual manuscripts reviewed):

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| ○ <i>Nature Chemistry</i> | ○ <i>Journal of Chemical Information and Modeling</i> |
| ○ <i>Nature Reviews Chemistry</i> | ○ <i>Journal of Computational Chemistry</i> |
| ○ <i>Nature Communications</i> | ○ <i>Journal of Chemical Theory and Computation</i> |
| ○ <i>Nature Computational Science</i> | ○ <i>Advanced Materials</i> |
| ○ <i>Journal of the American Chemical Society</i> | ○ <i>Cell Reports Physical Science</i> |
| ○ <i>Chemical Science</i> | ○ <i>Frontiers in Inorganic Chemistry</i> |
| ○ <i>Angewandte Chemie</i> | ○ <i>Organometallics</i> |
| ○ <i>Chemistry - a European Journal</i> | ○ <i>Tetrahedron</i> |
| ○ <i>ChemistryOpen</i> | ○ <i>Organic and Biomolecular Chemistry</i> |
| ○ <i>Israel Journal of Chemistry</i> | ○ <i>Organic Letters</i> |
| ○ <i>Journal of the American Society for Mass Spectrometry</i> | ○ <i>Journal of Organic Chemistry</i> |

- *European Journal of Organic Chemistry*
- *Journal of Physical Organic Chemistry*
- *Physical Chemistry Chemical Physics*
- *Journal of Chemical Physics*
- *Journal of Physical Chemistry*
- *Journal of Physical Chemistry Letters*
- *Chemical Physics Letters*
- *Digital Discovery*

Since 2018 Reviewer for internationally recognized journals funding agencies:

- *Natural Sciences and Engineering Research Council of Canada*
- *Petroleum Research Fund (USA)*
- *Swiss National Science Foundation*

Departmental Activities.....

Since 2024 Member of committee for redesign of the Chemistry study program

Since 2024 Member of recruiting committee

Since 2024 Academic in charge of departmental Colloquia

Since 2023 Member of the departmental Teaching Committee

Since 2022 Academic in charge of the Computational Chemistry service laboratory

2022-2024 Academic in charge of Organic/Inorganic Seminars

Outreach Activities.....

2024 Technion Ambassadors program

2024 Technion Representative in the *Network of Excellence for Women PhD Students*, supported by AFIK in Academia Israeli Women University Professors' Forum

2024 Judge in Chemistry Tournament for high school students

2024 Scientific Lecture to Chemistry Olympiad students

2023 Invited speaker for mentorship session and panel discussion with PhD and Postdocs, Gordon Research Conference on Physical Organic Chemistry

2023 Invited speaker for mentorship panel for graduating PhDs, Technion

2023 Invited Speaker for "Global Women's Day" at ICON Plc. Company

2020 Member of panel "Portrait of a Working Mother", discussing women in academia, ETH Zurich

2019 Member of panel "How to Survive Your PhD", discussing the experience of female PhD students, ETH Zurich

2018-2019 Vice-Chairperson of the Society for Women in Natural Sciences, ETH Zurich