

# Renana Gershoni Poranne

Associate Professor

Schulich Faculty of Chemistry – Technion, Israel

✉ rporanne@technion.ac.il

🌐 <https://poranne-group.github.io/>

## Professional Experience

February 2026

since 08/25    **Associate Professor** Technion – Israel Institute of Technology  
10/21—07/25    **Assistant Professor** Technion – Israel Institute of Technology  
09/19—09/24    **Branco Weiss Fellow** ETH Zürich, Technion – Israel Institute of Technology  
07/17—09/21    **Group Leader / "Habilitation"** within the group of Prof. Peter Chen, ETH Zürich  
09/15—06/17    **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  
2019–2025    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

2025    The Liebig Lectureship Award of the Organic Chemistry Division of the GDCh  
2025    Academic Investigator Award of the Division of Organic Chemistry (ACS and EuChemS)  
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 '53<sup>rd</sup> 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 ( <i>with distinction</i> )
2004—2007	President of the Technion's Award for Excellence in Studies, 5 semesters ( <i>top 3%</i> )

## Grants

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2026—2028	Petroleum Research Fund 125,000 USD
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

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### Postdoctoral Fellows.....

current	Dr. Sabyasachi Chakraborty
current	Dr. Ajeet Kumar Singh
current	Dr. Amrita Gogoi <i>Margaret Kaplan Postdoctoral Fellowship in Honor of Judith Kaplan</i>
current	Dr. Pallavi Sarkar <i>Lady Davis Fellowship</i>
2022—2025	Dr. Katarzyna Mlodzikowska-Pienko <i>Azrieli Postdoctoral Fellow</i>

### Ph.D. Theses.....

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

### M.Sc. Theses.....

2023—2025	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.....

2025	Maysam Halabi (Technion, joint project with Computer Science)
2025	Maayan Farkash (Technion, joint project with Computer Science)
2025	Taqwa Ghanayem (Technion)
2025	Ruth Ascoli-Abbina (Technion)
2025	Keren Junker Omer (Technion)
2023—2024	Yair Davidson (Technion, joint project with Computer Science)
2023—2024	Aviad Philipp (Technion, joint project with Computer Science)
2024	Yaara Pelleg (Technion)
2023—2024	Sahar Sagy (Technion)
2023—2024	Omri Altman (Technion)

## Teaching Experience – Summarized

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### As Lecturer at Technion.....

Since 2024	Lecturer – <i>Applied Computational Chemistry</i>
Since 2022	Lecturer – <i>Principles of Chemistry A</i>
Since 2022	Lecturer – <i>Molecular Orbitals in Organic Chemistry</i>

### As Lecturer at ETH Zurich.....

2018—2021	Lecturer – <i>Organic Chemistry IV: Physical Organic Chemistry</i>
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### As Teaching Assistant at Technion.....

2009—2015	Senior Teaching Assistant – <i>Principles of Chemistry A; Principles of Chemistry B; Organic Chemistry Expanded 1; Organic Chemistry Expanded 2; Structure Determination by Physical Methods</i>
2008—2009	Teaching Assistant and Lab Instructor – <i>Principles of Chemistry A; Principles of Chemistry B</i>

## Oral Presentations at International Conferences

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33. (Upcoming – Invited Talk) **CBOND 2026 — 5th European Symposium on Chemical Bonding**  
*Brussels, Belgium — September, 2026*
32. (Upcoming – Invited Talk) **Reaction Mechanisms Conference**  
*Michigan, USA — June, 2026*
31. (Upcoming – Invited Talk) **George A. Olah Award in Hydrocarbon Chemistry Symposium, ACS Spring Meeting**  
*Georgia, USA — March, 2026*
30. (Upcoming – Plenary Talk) **Israel Chemical Society 2026 Meeting**  
*Tel Aviv, Israel — February, 2026*
29. (Invited Talk) **Solvay Meeting — Aromaticity Celebrating Benzene 200 Years**  
*Brussels, Belgium — December, 2025*
28. (Invited Talk) **Symposium on Frontiers in Organic Chemistry**  
*Corressia, Greece — September, 2025*
27. (Invited Talk) **ESOR 2025 — 20th European Symposium on Organic Reactivity**  
*Padova, Italy — September, 2025*
26. (Invited Talk) **Academic Young Investigator Award Symposium — ACS Fall Meeting 2025**  
*Washington, D.C., USA — August, 2025*

25. (Plenary Talk) **The 37th Molecular Modelling Workshop 2025**  
*Erlangen, Germany* — March, 2025
24. (Invited Talk) **Aromaticity2025**  
*Merida, Mexico* — January, 2025
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 3<sup>rd</sup> “Carbon” Fusion Conference**  
*Tulum, Mexico* — May, 2023
11. (Invited Talk) **The 2<sup>nd</sup> 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

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2026	2nd Seminar of the European Committee of Chemical Bonding <i>presented online</i>
2025	Ariel University
2025	Tel Aviv University
2025	Ludwig Maximilian University of Munich <i>Liebig Lectureship Tour</i>
2025	University of Regensburg <i>Liebig Lectureship Tour</i>
2025	Chemnitz University of Technology <i>Liebig Lectureship Tour</i>
2025	Max Planck Institute, Mülheim an der Ruhr <i>Liebig Lectureship Tour</i>
2025	University of Münster <i>Liebig Lectureship Tour</i>
2025	Justus Liebig University Gießen <i>Liebig Lectureship Tour</i>
2025	Albert Ludwig University of Freiburg <i>Liebig Lectureship Tour</i>
2025	RSC Desktop Seminar - 200 Years of Benzene <i>presented online</i>
2025	Institute of Science and Technology, Austria
2025	University of Regensburg
2025	University of York <i>presented online</i>
2025	University of Oregon Eugene
2025	UC Berkeley
2024	University of Regensburg <i>presented online</i>
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 <i>presented online</i>
2021	Massachusetts Institute of Technology <i>presented online</i>
2021	Florida State University <i>presented online</i>
2019	Vrije Universiteit Amsterdam

## Academic Contributions

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### Editorial Activities.....

2026	Co-editor of the <i>Special Issue on Excited State Aromaticity and Antiaromaticity</i> , published by <i>Photochemical and Photobiological Sciences</i> .
2026	Co-editor of the <i>Special Issue on Physical Organic Chemistry of Novel Aromatic Materials</i> , published by the <i>Beilstein Journal of Organic Chemistry</i> .

<b>Since 2025</b>	Member of the Editorial Advisory Board of <i>The Journal of Computational Chemistry</i> .
<b>Since 2023</b>	Associate Editor of <i>The Journal of Physical Organic Chemistry</i> .
<b>Since 2020</b>	Member of the Editorial Advisory Board of <i>ChemistryOpen</i> .
<b>2024—2025</b>	Co-editor of the <i>Prof. Dr. Peter Chen Festschrift</i> , published by <i>Helvetica Chimica Acta</i> .
<b>2023—2024</b>	Co-editor of the <i>Special Issue on Excited State Aromaticity and Antiaromaticity</i> , published by the <i>Journal of Physical Organic Chemistry</i> .
<b>2021—2022</b>	Co-editor of the <i>Rosarium Philosophorum on Computational Chemistry</i> , published by the <i>Israel Journal of Chemistry</i> .

## Organization of Conferences.....

<b>Since 2025</b>	Member of the International Standing Committee of the European Symposium on Organic Reactivity (ESOR)
<b>2025—2026</b>	Member of the Scientific Advisory Board of the Magnetically Induced Currents (MAGIC) meeting, Glasgow, June 2026
<b>2024—2025</b>	Co-organizer of the Symposium in Honor of Prof. Dr. Peter Chen. Zurich, July 2025.
<b>2023—2024</b>	Co-director of the 3 <sup>rd</sup> International Conference on Excited State Aromaticity and Antiaromaticity. Croatia, July 2024.
<b>2024—2026</b>	Member of the Scientific Advisory Board of the 4 <sup>th</sup> International Conference on Excited State Aromaticity and Antiaromaticity
<b>2023—2024</b>	Member of the Scientific Advisory Board of the 3 <sup>rd</sup> International Conference on Excited State Aromaticity and Antiaromaticity
<b>2022—2023</b>	Member of the Scientific Advisory Board of the 2 <sup>nd</sup> International Conference on Excited State Aromaticity and Antiaromaticity
<b>2021—2022</b>	Member of the Scientific Committee of the European Young Chemists' Meeting 2022
<b>2011—2013</b>	Chairperson of the Organizing Committee, 5 <sup>th</sup> , 6 <sup>th</sup> and 7 <sup>th</sup> Schulich Graduate Symposium
<b>2009—2010</b>	Member of the Organizing Committee, 3 <sup>rd</sup> and 4 <sup>th</sup> Schulich Graduate Symposium

## Reviewing Activities.....

**Since 2018** Reviewer for internationally recognized journals (>100 individual manuscripts reviewed):

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

**Since 2018** Reviewer for internationally recognized journals funding agencies:

- *Israel Science Foundation*

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

### Departmental Activities.....

Since 2025	Academic Representative for 3 <sup>rd</sup> Year Undergraduate Students
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.....

2026	Scientific lecture to high-school Chemistry teachers.
2025	"Technion on the Bar" - Popular science presentation for a general audience.
2025	Workshop on poster design for graduate students and postdocs
since 2024	Technion Ambassadors program
2024	Technion Representative in the <i>Network of Excellence for Women PhD Students</i> , 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