

# Renana Gershoni Poranne

Assistant Professor

Schulich Faculty of Chemistry – Technion, Israel

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🌐 <https://poranne-group.github.io/>

## Professional Experience

September 2024

since 2021 **Assistant Professor** Technion – Israel Institute of Technology

since 2019 **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 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 (*with distinction*)  
 2004-2007 President of the Technion's Award for Excellence in Studies, 5 semesters (*top 3%*)

## Grants

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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. Katarzyna Mlodzikowska-Pienko *Azrieli Postdoctoral Fellow*  
 current Dr. Sabyasachi Chakraborty

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

2019-2023 Alexandra Wahab (ETH Zürich)

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

current Itay Almog (Technion)  
 current Eduardo Mayo (Technion)  
 current Fatimah Khaleel (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

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### 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

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27. (Upcoming – Invited Talk) **WATOC 2025**  
*Erlangen, Germany* — June, 2025
26. (Upcoming – Plenary Talk) **The 37th Molecular Modelling Workshop 2025**  
*Erlangen, Germany* — March, 2025
25. (Upcoming – Invited Talk) **Aromaticity2025**  
*Merida, Mexico* — January, 2025
24. (Upcoming – 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 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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**2025** University of Oregon, Eugene *planned for February, 2025*  
**2025** UC Berkeley *planned for February, 2025*  
**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 3<sup>rd</sup> International Conference on Excited State Aromaticity and Antiaromaticity. Croatia, July 2024.

**2024-2025** Member of the Scientific Advisory Board of the 4<sup>th</sup> International Conference on Excited State Aromaticity and Antiaromaticity

**2023-2024** Member of the Scientific Advisory Board of the 3<sup>rd</sup> International Conference on Excited State Aromaticity and Antiaromaticity

**2022** Member of the Scientific Advisory Board of the 2<sup>nd</sup> 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, 5<sup>th</sup>, 6<sup>th</sup> and 7<sup>th</sup> Schulich Graduate Symposium

**2009-2010** 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 (70 individual manuscripts reviewed):

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| ○ <i>Nature Chemistry</i>                                      | ○ <i>Frontiers in Inorganic Chemistry</i>      |
| ○ <i>Nature Reviews Chemistry</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>                     |
| ○ <i>Cell Reports Physical Science</i>                         |  |

**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** 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