

Leor Neuhauser

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🌐 leorneuhauser.com

Education

- 2023 – ···· **Ph.D. Mathematics, Hebrew University of Jerusalem.**
Thesis : *Duality in higher categories.*
Advisor: Dr. Lior Yanovski
- 2018 – 2022 **M.Sc. Mathematics, Hebrew University of Jerusalem.**
Summa Cum Laude (98.5/100).
Thesis: *On algebraically closed fields with a predicate* (awarded 99/100).
Advisors: Dr. Itay Kaplan and Dr. Christian d’Elbée.
- 2014 – 2018 **B.Sc. Mathematics, Hebrew University of Jerusalem.**
Cum Laude (96.5/100).

Research Interests

- Homotopy Theory and Higher Category Theory, with an emphasis on (∞, n) -categories.
- Model Theory and Mathematical Logic (M.Sc. studies).

Publications

Journal Articles

- 1 **L. Neuhauser**, “Rigid algebras and cospans,” *International Mathematics Research Notices*, accepted for publication. 🔗 URL: <https://arxiv.org/abs/2506.22072>.
- 2 C. d’Elbée, I. Kaplan, and **L. Neuhauser**, “Existentially closed models of fields with a distinguished submodule,” *The Journal of Symbolic Logic*, vol. 91, no. 1, pp. 1–26, 2026. 🔗 DOI: 10.1017/jsl.2025.10110.
- 3 C. d’Elbée, I. Kaplan, and **L. Neuhauser**, “On algebraically closed fields with a distinguished subfield,” *Israel Journal of Mathematics*, vol. 263, pp. 169–211, 2024. 🔗 DOI: 10.1007/s11856-024-2621-1.

Conference Proceedings

- 1 **L. Neuhauser**, “Cyclotomic redshift,” in *Oberwolfach Reports*, Report No. 47/2024, Arbeitsgemeinschaft: Algebraic K-Theory and the Telescope Conjecture, vol. 47, 2024, pp. 2774–2775. 🔗 DOI: 10.4171/OWR/2024/47.

Research Talks and Visits

Invited Talks


- 2025 **■** *Rigid algebras in $(\infty, 2)$ -categories*, Topology Seminar, University of Chicago, USA.
■ *Multiplicative structures of higher bordism categories*, Topology Seminar, University of Haifa, Israel.
■ — ” —, Homotopy Day, Weizmann Institute of Science, Israel.

Contributed Talks

- 2025 **■** Annual Meeting of the Australian Mathematical Society, La Trobe University, Australia.
■ Young Topologists Meeting (YTM), Stockholm University, Sweden.
- 2024 **■** Arbeitsgemeinschaft on the Telescope Conjecture, Oberwolfach, Germany.
■ Young Topologists Meeting (YTM), University of Münster, Germany.



Research Talks and Visits (continued)

Research Visits


2025  Research Abroad Program, University of Melbourne, Australia.


Services

2025  Organizer, Category Theory Problem-Solving Seminar, University of Melbourne, Australia.


2024  Co-organizer, Conference in honor of Emmanuel Farjoun's 80th birthday, University of Mainz, Germany.  <https://sites.google.com/view/revisiting-localizations/>.


Honors

2022  Dean's List, M.Sc., Hebrew University of Jerusalem.


2018  Dean's List, B.Sc., Hebrew University of Jerusalem.


Teaching Experience

2026  Teaching Assistant, Linear Algebra I.

2025  Teaching Assistant, Algebraic Topology (Graduate).

2024  Teaching Assistant, Linear Algebra II.

 Teaching Assistant, Algebraic Structures I.

2019  Grader, Introduction to Logic.

References

Available on Request.