

CV: Dr Tamar Bar-On

Personal Data

- E-mail: tamarnachshoni@gmail.com
- Date of Birth: 8/1994.
- Address: Hanassi 11, Givat Shmuel.
- Phone: 054-6285252.

Research interests

Profinite groups, Central Simple algebras, Galois cohomology.

Education

- 2023-present: **University of Oxford**
Post-doctorate at Mathematics, under the supervision of Prof. Nikolay Nikolov.
- 2017-27.06.2022: **Bar-Ilan University**
Ph.D. in Mathematics under the supervision of Prof. Eliyahu Matzri.
- 2015–2016: **Bar-Ilan University**
M.Sc. in Mathematics under the supervision of Prof. Eliyahu Matzri. Thesis: Profinite completion of algebraic structures. Graduated “Summa cum laude”.
- 2011–2013: **Bar-Ilan University**
B.A. in Mathematics. Graduated “magna cum laude”.

Publications

- Tamar Bar-On, Profinite completion of free pro- \mathcal{C} groups- submitted. Arxiv: <http://arxiv.org/abs/2301.12982>
- Tamar Bar-On, Cohomological properties of absolute Galois groups- submitted. Arxiv: <http://arxiv.org/abs/2301.11224>
- Tamar Bar-On, The tower of profinite completions, Journal of Group Theory, Volume 21, Issue 6, Pages 1065–1072, ISSN (Online) 1435-4446, ISSN (Print) 1433-5883.
- Tamar Bar-On, Shira Gilat, Eliyahu Matzri and Uzi Vishne, Locally finite central simple algebras, "Algebras and Representation Theory", DOI: <https://doi.org/10.1007/s10468-021-10103-4>
- Tamar Bar-On, The weight of nonstrongly complete profinite groups- published at "Journal of group theory", URL; <https://doi.org/10.1515/jgth-2021-0001>.
- Tamar Bar-On, The profinite completion of a profinite projective group, Glasgow Mathematical Journal, DOI: <https://doi.org/10.1017/S0017089521000240>
- Tamar Bar-On, Shira Gilat, Eliyahu Matzri and Uzi Vishne, The algebra of supernatural matrices, accepted to "Contemporary mathematics", withdrawn.

Honors and Scholarships

- 2022: Israel Council for Higher Education - VATAT postdoctoral fellowship for women.
- 2022: BIU postdoctoral fellowship for women.
- 2022: Fulbright postdoctoral fellowship (declined).
- 2021: Rothschild postdoctoral fellowship.
- 2021: Schmidt postdoctoral award.
- 2018: Rector's list of Distinction.
- 2015: Dean's list of Distinction.
- 2013: Dean's list of Distinction.
- 2013: Departmental excellence scholarship.

Invited Speaker

- New Trends around Profinite Groups 2022, 14-16/09/2022

Conference and Seminar Talks

- Profinite completion of free profinite groups, Algebraseminar, University of Oxford, May, 2023.
- Locally finite dimensional central simple algebras, Algebra seminar, Haifa University, November, 2022.

- Locally finite dimensional central simple algebras, TAU Algebra seminar, November, 2022.
- Segal-Nikolov Theorem and applications, the Brauer Group conference, Israel, June, 2022.
- Profinite completion and the Congruence kernel problem of endomorphism rings, GRAZ, Austria, July 19-24, 2021 - Canceled due to hospitalization.
- Segal-Nikolov Theorem and applications, the annual Israel Mathematical Union meeting, July, 2021.- Canceled due to hospitalization.
- Segal-Nikolov Theorem and applications, TAU, April, 2021.
- Profinite completion of free profinite groups, NYGT Seminar, New York, March, 2021.
- The congruence kernel problem for endomorphism rings, Algebra Seminar, Haifa University, December, 2020.
- The congruence kernel problem for endomorphism rings, Algebra Seminar, BIU, November, 2020.
- Profinite completion of free profinite groups, IMU conference- lightning talks, Israel, September, 2020
- Profinite completion of free profinite groups, Algebra seminar, Haifa University, Israel, June, 2020
- Finite and Residually Finite Groups conference, Spain, May, 2020- declined because of the Coronavirus epidemic.
- Profinite completion of free profinite groups, Field arithmetic seminar, TAU, Israel, March, 2020
- The fifth conference for women in mathematics, Netanya, Israel, March 2020
- Profinite completion of free profinite groups, Algebra Seminar, Technion, January, 2020.
- Profinite completion of free profinite groups, Amitsur Seminar, The Hebrew University, January, 2020.
- Profinite completion of free profinite groups, Algebra Seminar, BIU, January, 2020.
- Groups, Rings and associated structures, Spa, Belgium, June 2019.
- Emmy Noether Day, TAU, Israel, May 2019.
- The fourth conference for women in mathematics, Sde Boker, Israel, October 2018.
- The Brauer Group conference, Pingree park, Colorado, June 2018.

Seminars organization

- Student Seminar, Bar Ilan University, 2021, Spring semester
- Students seminar in Homological Algebra, Bar Ilan University, 2020, Winter semester.
- Annual seminar, Schemes, Bar Ilan University, 2019.
- Mini seminar, Free profinite groups, Bar Ilan University, 2019, Spring semester.

Services

- Mentor in the Association for Women in Mathematics program.
- Referee for Mediterranean Journal of Mathematics.
- Reviewer for zbMATH.
- Referee for Homology, Homotopy and applications.
- Reviewer for Math Reviews.

Languages:

- Hebrew - mother tongue.
- English - Good.

National Service:

- Boarding school for youth at risk. (2014).

Employment:

- 2015-2022: Teacher Assistant in Bar-Ilan University .