Personal information & current position

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Position: postdoctoral research fellow

Institution: Bar-Ilan University
Address: Max ve-Anna Webb 2, 5290002,
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Google Scholar website: https://scholar.google.com/citations?user=B_DTCdcAAAAJ&hl=en

Experience

Postdoctoral researcher, Bar-Ilan University *2022.7 – present*
Advisor: Assaf Rinot

Education

***Ph.D.* in mathematics**
Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Sep. *2016 – Jun. 2022*
Joint program with University of Barcelona (*Oct. 2020 – Dec. 2021*)
Advisors: Joan Bagaria, Liuzhen Wu and Jiachen Yuan

***B.G.S.* in Mathematics, and Biology**
Nankai University
Sep. 2012 – Jul. 2016

Projects

Joint PhD student at University of Barcelona, China Scholarship Council (2020.10-2021.12).

Papers and preprints

[1] On the cofinality of the least λ-strongly compact cardinal (with Jiachen Yuan),
Journal of Symbolic Logic, 2024. DOI: https://doi.org/10.1017/jsl.2023.4.
[2] How far is almost strong compactness from strong compactness (with Jiachen Yuan),
Journal of Mathematical Logic, 2025. DOI: https://doi.org/10.1142/S0219061324500090.
[3] Full Souslin trees at small cardinals (with Assaf Rinot and Shira Yadai),
Journal of the London Mathematical Society, 2024. DOI: https://doi.org/10.1112/jlms.12957.
[4] The vanishing levels of a tree (with Assaf Rinot and Shira Yadai), submitted 2024.
Preprint available at https://arxiv.org/abs/2309.03821.
[5] Ketonen's question and other sins (with Assaf Rinot and Jiachen Yuan), accepted by Israel Journal of Mathematics. Preprint available at https://arxiv.org/abs/2408.01547.
[6] A new model in which all C-sequences are trivial (with Assaf Rinot and Jiachen Yuan), submitted 2025.
Preprint available at https://arxiv.org/abs/2504.06794.
[7] A note on indecomposable ultrafilters, in preparation.

Reviews

Reviewer of ***Archive for Mathematical Logic***.

Presentations

[1]. Minimal Magidor-type forcing (Countable case). Prikry Forcing Online: University of East Anglia, December 2020.
[2]. Hierarchies of δ-strongly but not full strongly compact cardinals. Logic workshop in Nanjing: Nanjing University, March 2021.
[3]. Hierarchies of δ-strongly but not full strongly compact cardinals. Barcelona Set Theory Seminar: University of Barcelona, September 2021.
[4]. Strong compactness and its variation. Mathematical Logic Seminar: Wuhan University, March 2022.
[5]. On the δ-strongly compact cardinal. Bar-Ilan University Set Theory Seminar: Bar-Ilan University, Israel, August 2022.
[6]. A minimal Magidor-type forcing (countable case). Bar-Ilan University Set Theory Seminar: Bar-Ilan University, Israel, September 2022.
[7]. Hierarchies of δ-strongly compact cardinal. Annual meeting of The Israel Mathematical Union: Ben Gurion University of the Negev, Israel, September 2022.
[8]. Identity crisis between δ-strongly compact cardinals. Tel Aviv University Set Theory Seminar: Tel Aviv University, Israel, September 2022.
[9]. How far is almost strong compactness from strong compactness. Logic Colloquium 2023: University of Milan, Italy, June 2023.
[10]. Some new constructions of Suslin trees. Mathematical Logic Seminar: Wuhan University, China, October 2023.
[11]. The vanishing level of a tree. Chinese Annual Conference on Mathematical Logic 2023: Sun Yat-sen University, China, November 2023.
[12]. Adding entangled branches to a κ-Suslin tree. Institute of Mathematics Set Theory Seminar: Chinese Academy of Sciences, China, November 2023.
[13]. Intersection of a sequence of outer models. Bar-Ilan University Set Theory Seminar: Bar-Ilan University, Israel, May 2024.
[14]. The intersection of a sequence of outer models and sum ultrafilter constructions. Set Theory Seminar in Jerusalem: Hebrew University, Israel, May 2024.