

Sittinon Jirattikansakul

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Education

Ph.D. Carnegie Mellon University , Pure and Applied Logic, Mathematical Sciences	Aug 2016- Aug 2021
Ph.D. Advisor: James Cummings	
Thesis: Blowing up the power of a singular cardinal of any cofinality with collapses	
B.S. Chulalongkorn University, Thailand , Mathematics	2011-2015

Experience

Chulalongkorn University , Lecturer	Bangkok, Thailand
Department of Mathematics and Computer Science Faculty of Science	May 2024-present
Tel Aviv University , Postdoctoral researcher	Tel Aviv, Israel
Postdoctoral supervisor: Moti Gitik	Oct 2021 – Sep 2023

Research Interests

I am interested in Mathematical logic, especially on set theory, forcing techniques, large cardinals, and infinitary combinatorics.

Publications

1. Jirattikansakul, S., Oren, I., Rinot A., *A model for global compactness*, *Israel Journal of Mathematics* to appear.
1. Gitik, M., Jirattikansakul, S. *Extender-based Magidor-Radin forcings without top extenders*, *Annals of Pure and Applied Logic* **176** (2025), Paper No. 103584, 31 pp. Apr 2025
<https://doi.org/10.1016/j.apal.2025.103584>
2. Iamthong, K., Jirattikansakul, S., & Korkeatikhun, K. *Some Shallow Elements of Coxeter Groups of Type B*, *Thai Journal of Mathematics*. **23** (2025), 21–30. Mar 2025
3. Benhamou, T., Jirattikansakul, S. *A small ultrafilter number at every singular cardinal*. *Acta Math. Hungar.* **171** (2023), 12–38 . <https://doi.org/10.1007/s10474-023-01377-9> Oct 2023
4. Jirattikansakul, S. *Blowing up the power of a singular cardinal of uncountable cofinality with collapses*, *Annals of Pure and Applied Logic* **174** (2023), Paper No. 103257, 26 pp. June 2023
<https://doi.org/10.1016/j.apal.2023.103257>

Organizations

- Organizer, Set Theory and Model Theory seminar for grad students (GSTMT seminar)** 2021
Carnegie Mellon University, USA

Selected Contributed Talks

Extender-based Magidor-Radin forcings without top extenders	2025
Special talks: MATH & COM CHULA 2025, Chulalongkorn University, Thailand	
Some combinatorics at singular cardinals	2022
Logic conference, Chulalongkorn University, Thailand	
Adding a club of former regulars to an inaccessible cardinal	
SETTOP, Serbia	
Supercompact extender-based forcing	2021
TAU logic seminar, Tel Aviv University, Israel	
An introduction to nonstandard analysis	
TAU Postdoc / graduate student seminar, Tel Aviv University, Israel	
Large cardinals and extenders	
UIC Logic seminar, University of Illinois Chicago, USA	
Blowing up the power of a singular cardinal of uncountable cofinality with collapses	2020
Prikry Forcing Online	
Some applications of large cardinals	
Chulalongkorn University	
An introduction to the Keisler's order	
GSTMT seminar, Carnegie Mellon University, USA	
An introduction to Proper forcings	2019
GSTMT seminar, Carnegie Mellon University, USA	
Prikry forcings and supercompact Prikry forcings	2018
GSTMT seminar, Carnegie Mellon University, USA	

Attended conferences / workshops

Annual Pure and Applied Mathematics (APAM)

2025

Chulalongkorn University, Thailand

The 29th Annual Meeting in Mathematics

The Emerald Hotel Bangkok, Thailand

Annual Pure and Applied Mathematics (APAM)

2024

Chulalongkorn University, Thailand

Young Set Theory Workshop

2022

Novi Sad, Serbia

SETTOP

Novia Sad, Serbia

Advances in set theory

The Hebrew University of Jerusalem, Israel

Logic Fest in the Windy City

2019

Chicago, Illinois, USA

11TH YOUNG SET THEORY WORKSHOP

2018

Lausanne, Switzerland

Association for Symbolic Logic 2018 North American Annual Meeting

Macomb, Illinois, USA

Winter School in Abstract Analysis 2018, section Set theory Topology

Hejnice, Czech Republic