Curriculum Vitae

Shangjie Yang

Ramat Gan, 5290002, Israel

email: shangjie.yang@biu.ac.il, yashjie@gmail.com

Web Page: https://shjyang.github.io

Positions

• February 2022 — present Postdoc

• November 2021 — February 2022 Postdoc (online)

• July 2021 — October 2021 Postdoc (online)



Bar-Ilan University Host: Gidi Amir and Naomi Feldheim Universidade Federal de Bahia Host: Tertuliano Franco

> Bar-Ilan University Host: Gidi Amir

Education

• March 2017 — April 2021 Ph.D. student

• March 2015 — February 2017 Master student

• September 2013 — December 2014 Master student (dropout)

• September 2009 — June 2013 Undergraduate student Instituto de Matemática Pura e Aplicada Adviser: Hubert Lacoin

Instituto de Matemática Pura e Aplicada Adviser: Vladas Sidoravicius

Nankai University
Adviser: Kainan Xiang
Sun Yat-sen University

Research interest

My research focuses on the intersection between probability theory and statistical mechanics: Markov chains and mixing times, random polymer models, interacting particle systems, random walks in random environments, Gaussian random functions.

Publications and preprints

- 5. **N. Feldheim and S. Yang,** Typical height of the (2+1)-D Solid-on-Solid surface with pinning above a wall in the delocalized phase Arxiv: 2301.09197

 Stochastic Processes and their Applications. 165 (2023), Pages 168-182.
- 4. **G. Amir and S.Yang,** The branching number of intermediate growth trees Arxiv: 2205.14238 submitted.
- 3. **H. Lacoin and S.Yang,** Mixing time of the asymmetric simple exclusion process in a random environment Arxiv: 2102.02606

 Ann. Appl. Probab. 34(1A): 388-427 (February 2024).
- 2. **H. Lacoin and S.Yang,** Metastability for expanding bubbles on a sticky substrate Arxiv: 2007.07832 Ann. Appl. Probab. 32(5): 3408-3449 (October 2022).
- 1. **S. Yang,** Cutoff for polymer pinning dynamics in the repulsive phase Arxiv: 1909.04635 Ann. Inst. H. Poincaré Probab. Statist. 57(3): 1306-1335 (2021).

Teaching assistants at Instituto de Matemática Pura e Aplicada

- 1. Probability 1 (03/2018 06/2018)
- 2. Stochastic process (the second half) (10/2019 11/2019) (The first half was given by Leandro Chiarini, 8/2019 9/2019)
- 3. Markov chains and mixing times (01/2020 02/2020)

Teaching in Universidade Federal da Bahia

1. Minicourse: mixing time for interface models and particle system (11/2021 — 01/2022)

Conference: Probability and Statistical Physics	Jan 2024
Talk: Mixing Time of ASEP in a random environment	
Beijing Normal University	Jan 2024
Talk: Metastability for expanding bubbles on a sticky substrate	
• Harbin Institute of Technology	Dec 2023
Talk: Metastability for expanding bubbles on a sticky substrate	
• Southern University of Science and Technology (SUSTech)	Nov 2023
Talk: Metastability for expanding bubbles on a sticky substrate	1.00 2020
• Sichuan University	Nov 2023
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Talk: Cutoff for polymer pinning dynamics in the repulsive phase	N 0000
• Academy of mathematics and system science	Nov 2023
Talk: Cutoff for polymer pinning dynamics in the repulsive phase	17 0000
• Nankai University	Nov 2023
Talk: Cutoff for polymer pinning dynamics in the repulsive phase	
• Tsinghua University	$Nov \ 2023$
Talk: Cutoff for polymer pinning dynamics in the repulsive phase	
• Harbin Institute of Technology	Oct 2023
Talk: Cutoff for polymer pinning dynamics in the repulsive phase	
Weizmann: Students Probability Day IX	May 2023
Short talk: Typical height of the (2+1)-D Solid-on-Solid surface with pin	
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Bar-Ilan University	March 2023
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Mandarin (native) Cantonese (native) English (fluent) Portuguese (advance) French (basic)

Programming

Mathematica MATLAB

Referee for journals

Annals of applied probability Annals of probability

Communications in Mathematical Physics Electronic Journal of Probability

Award

Colman-Soref scholarship 2023, Israel

Miscellanies

2018 ICM Volunteer (Rio de Janeiro)