Curriculum Vitae

Shangjie Yang

Ramat Gan, 5290002, Israel

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

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

Positions

• March 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

• 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 submitted.

4. **G. Amir, S.Yang,** The branching number of intermediate growth trees Arxiv: 2205.14238 submitted.

- 3. **H. Lacoin, S.Yang,** Mixing time of the asymmetric simple exclusion process in a random environment Arxiv: 2102.02606 Accepted by Annals of Applied Probability
- 2. **H. Lacoin, 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)

Talks

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\bullet Weizmann: Students Probability Day IX May 2023 Short talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinning above a wall
in the delocalized phase
 Bar-Ilan University
• Technion March 2023
Talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinning above a wall in the delocalized phase
• Bar-Ilan University Dec 2022
Talk: The branching number of intermediate growth trees
• Tsinghua UPeking UBKU Webminar Sep 2022 Talk: Mixing time of ASEP in a random environment
• Sichuan University May 2022
Talk: mixing time for interface models and particle system
• Xiangtan University May 2022
Talk: mixing time for interface models and particle system
• Bar-Ilan University March 2022
Talk: mixing time for interface models and particle system
• Oberwolfach workshop Short talk: mixing time for ASEP in random environment November 2021
• Ningbo University March 2021
Talk: metastability for expanding bubbles on a sticky substrate
• Xiangtan University November 2020
Talk: metastability for expanding bubbles on a sticky substrate
• Bernoulli-IMS One World Symposium August 2020
short talk: metastability for expanding bubbles on a sticky substrate
• XXIII Brazilian School of Probability July 2019
poster: Cutoff for polymer pinning dynamics in the repulsive phase
• Probability Summer School Saint-Flour (France), July 2019
short talk: Cutoff for polymer pinning dynamics in the repulsive phase
Language
Mandarin (native) Cantonese (native) English (fluent) Portuguese (fluent) French (basic)
Programming
Mathematica MATLAB
Visit
• May 2021- February 2022 Instituto de Matemática Pura e Aplicada
Visiting fellow Host: Hubert Lacoin
Defence for the towned
Referee for the journal
Annals of applied probability Electronic Journal of Probability
Award
Kolman-Soref scholarship (2023, Israel)
Miscellanies
Volunteers ICM 2018 (Rio de Janeiro)