

Curriculum Vitae

Shangjie Yang

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Positions

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|---------------------------------|------------------------------------|
| • February 2022 — present | Bar-Ilan University |
| Postdoc | Host: Gidi Amir and Naomi Feldheim |
| • November 2021 — February 2022 | Universidade Federal de Bahia |
| Postdoc (online) | Host: Tertuliano Franco |
| • July 2021 — October 2021 | Bar-Ilan University |
| Postdoc (online) | Host: Gidi Amir |

Education

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| • March 2017 — April 2021 | Instituto de Matemática Pura e Aplicada |
| Ph.D. student | Adviser: Hubert Lacoin |
| • March 2015 — February 2017 | Instituto de Matemática Pura e Aplicada |
| Master student | Adviser: Vladas Sidoravicius |
| • September 2013 — December 2014 | Nankai University |
| Master student (dropout) | Adviser: Kainan Xiang |
| • September 2009 — June 2013 | Sun Yat-sen University |
| Undergraduate student | |

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

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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](#) Accepted by Annals of Applied Probability
 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

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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

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

Talks

- 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
- Sichuan University *Nov 2023*
Talk: Cutoff for polymer pinning dynamics in the repulsive phase
- Academy of mathematics and system science *Nov 2023*
Talk: Cutoff for polymer pinning dynamics in the repulsive phase
- 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 pinning above a wall in the delocalized phase
- Bar-Ilan University *March 2023*
Talk: Typical height of the (2+1)-D Solid-on-Solid surface with pinning above a wall in the delocalized phase
- 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 U.-Peking U.-BKU Webinar *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 *November 2021*
Short talk: mixing time for ASEP in random environment
- 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 (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
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Miscellanies

2018 ICM Volunteer (Rio de Janeiro)