

Curriculum Vitae

Shangjie Yang

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Positions

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|--------------------------------|------------------------------------|
| • March 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 | 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 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

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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

- 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 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 *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 (fluent) French (basic)

Programming

Mathematica MATLAB

Visit

- May 2021- February 2022 Instituto de Matemática Pura e Aplicada
Visiting fellow Host: Hubert Lacoin

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)