Curriculum Vitae

Shangjie Yang
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Positions

- March 2022 -present   Bar-Ilan University
  Postdoc   Host: Gidi Amir and Naomi Feldheim
- November 2021- February 2022   Universidade Federal de Bahia
  Postdoc   Host: Tertuliano Franco
- July 2021- October 2021   Bar-Ilan University
  Postdoc   Host: Gidi Amir

Education

- 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

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   submitted.
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 Uniersidade Federal da Bahia

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

Talks

- 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)

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