# Curriculum Vitae

**Shangjie Yang**
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## Positions

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

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

- 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 (advance)   French (basic)

## Programming

Mathematica        MATLAB

## Visit

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

## Referee for journals

Annals of applied probability                    Electronic Journal of Probability
Communications in Mathematical Physics

## Award

Colman-Soref scholarship (2023 Israel)

## Miscellanies

2018 ICM Volunteer (Rio de Janeiro)