Curriculum Vitae

Shangjie Yang

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

Positions

• February 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)

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| Weizmann: Students Probability Day IX Short talk: Typical height of the (2+1)-D Solid-on-Solid surface | May 2023 |
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| Bar-Ilan University | March 2023 |
| Talk: Typical height of the (2+1)-D Solid-on-Solid surface wit | |
| the delocalized phase | an pinning above a wan in |
| • Technion | March 2023 |
| Talk: Typical height of the (2+1)-D Solid-on-Solid surface wit the delocalized phase | |
| Bar-Ilan University | Dec 2022 |
| Talk: The branching number of intermediate growth trees | Dec 2022 |
| • Tsinghua UPeking UBKU Webminar | Sep 2022 |
| Talk: Mixing time of ASEP in a random environment | 5cp 2022 |
| • Sichuan University | May 2022 |
| Talk: mixing time for interface models and particle system | may 2022 |
| Xiangtan University | May 2022 |
| Talk: mixing time for interface models and particle system | May 2022 |
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| Bar-Ilan University Table position time for interference and depend on action process. | March 2022 |
| Talk: mixing time for interface models and particle system | M 1 000 |
| Oberwolfach workshop Olivery A GED: A GED: A GED: | November 2022 |
| Short talk: mixing time for ASEP in random environment | M 1 202 |
| Ningbo University Talk: metastability for expanding bubbles on a sticky substrate | March 202 |
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| Xiangtan University Talk: metastability for expanding bubbles on a sticky substrate | November 2020 e |
| • Bernoulli-IMS One World Symposium | August~2020 |
| short talk: metastability for expanding bubbles on a sticky sub | strate |
| • XXIII Brazilian School of Probability | July 2019 |
| poster: Cutoff for polymer pinning dynamics in the repulsive p | ű. |
| • Probability Summer School Saint-Flour (France), | July 2019 |
| short talk: Cutoff for polymer pinning dynamics in the repulsiv | - |
| Language | уе рназе |
| Mandarin (native) Cantonese (native) English (fluent) Portuguese | (advance) French (basic) |
| Programming | |
| Mathematica MATLAB | |
| Visit | |
| • May 2021- February 2022 Instituto de Ma | atemática Pura e Aplicada |
| Visiting fellow | Host: Hubert Lacoin |
| Referee for journals | |
| Annals of applied probability Electronic Journal of | f Probability |
| Communications in Mathematical Physics | |
| Award | |
| Colman-Soref scholarship (2023 Israel) | |
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| Miscellanies | |