Curriculum Vitae

Shangjie Yang

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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 (dropout)

• 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

 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)
- 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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Talks

Talks	
• 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 pinn	ing 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 UPeking UBKU Webminar	Sep 2022
Talk: Mixing time of ASEP in a random environment	1
• 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	J
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	11000111001 2020
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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	
andarin (native) Cantonese (native) English (fluent) Portuguese (advance)	French (basic)
Programming	
athematica MATLAB	

Sichuan University

Host: Yinshan Chang

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Visit

 $\bullet~8$ November 2023— 15 November 2023 Short visit

• 2 November 2023— 7 November 2023 Short visit

• 27 October 2023 – 1 November 2023 Short visit

• May 2021— February 2022 Visiting fellow Academy of Mathematics and Systems Science Host: Hui Xiao

> Harbin Institute of Technology Host: Jinghao Huang

Instituto de Matemática Pura e Aplicada

Host: Hubert Lacoin

Referee for journals

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

Award

Colman-Soref scholarship (2023, Israel)

Miscellanies

2018 ICM Volunteer (Rio de Janeiro)