

# 杨尚杰

弗鲁米嫩塞联邦大学

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## 工作经历

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| • 2025 年 5 月-至今           | 弗鲁米嫩塞联邦大学<br>助理教授                           |
| • 2024 年 3 月-2025 年 4 月   | 圣保罗大学 博士后<br>导师: Leonardo Rolla             |
| • 2022 年 3 月- 2024 年 2 月  | 巴伊兰大学 博士后<br>导师: Gideon Amir&Naomi Feldheim |
| • 2021 年 11 月- 2022 年 2 月 | 联邦巴伊亚大学 博士后 (线上)<br>导师: Tertuliano Franco   |
| • 2021 年 7 月- 2021 年 10 月 | 巴伊兰大学 博士后 (线上)<br>导师: Gideon Amir           |

## 教育背景

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| • 2017 年 3 月- 2021 年 4 月  | 巴西国立纯数学与应用数学研究所 博士生<br>导师: Hubert Lacoin       |
| • 2015 年 3 月- 2017 年 2 月  | 巴西国立纯数学与应用数学研究所 硕士生<br>导师: Vladas Sidoravicius |
| • 2013 年 9 月- 2014 年 12 月 | 南开大学 硕士生 (肄业)<br>导师: 向开南                       |
| • 2009 年 9 月- 2013 年 6 月  | 中山大学 本科生                                       |

## 研究方向

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我的研究集中在概率论和统计力学的交叉领域: 马尔可夫链及其混合时间、随机聚合物模型、相互作用粒子系统、随机环境中的随机游走、高斯随机函数。

## 学术论文

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- **S. Yang**, Cutoff of the simple exclusion process with inhomogeneous conductances  
Arxiv:2409.16337
  - **S. Yang**, The spectral gap and principle eigenfunction of the random conductance model in a line segment  
Arxiv:2408.07139
  - **Y. Wang, K. Xiang, S. Yang**, and L. Zou The high-order corrections of discrete harmonic measures and their correction constants  
**Journal of Statistical Physics**. Volume 191, article number 81, (2024)
  - **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

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**Stochastic Processes and their Applications.** 165 (2023), Pages 168-182.

- **G.Amir and S.Yang**, The branching number of intermediate growth trees  
Arxiv:2205.14238  
**Groups, Geometry, and Dynamics.** 2024.
- **H. Lacoïn and S.Yang**, Mixing time of the asymmetric simple exclusion process in a random environment  
Arxiv:2102.02606  
**Annals of Applied Probability.** 34(1A): 388-427 (February 2024).
- **H. Lacoïn and S.Yang**, Metastability for expanding bubbles on a sticky substrate  
Arxiv:2007.07832  
**Annals of Applied Probability.** 32(5): 3408-3449 (October 2022).
- **S. Yang**, Cutoff for polymer pinning dynamics in the repulsive phase Arxiv:1909.04635  
**Annales de l'Institut Henri Poincaré, Probabilités et Statistiques.** 57(3): 1306-1335 (2021).

## 教学经历

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- **圣保罗大学**  
组合分析、概率及其应用 (2025 年 1 月- 2 月)
- **联邦巴伊亚大学**  
短期课程：界面模型和粒子系统的混合时间 (2021 年 11 月- 2022 年 1 月)
- **巴西国立纯数学与应用数学研究所 (助教)**
  - 概率论 1 (2018 年 3 月- 6 月)
  - 随机过程 (下) (2019 年 10 月- 11 月)
  - 马尔可夫链和混合时间 (2020 年 1 月- 2 月)

## 学术报告

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- Indian Institute of Technology Madras, October 2024  
Talk: Spectral gap and cutoff of the simple exclusion process with IID conductances
- Universidade de São Paulo, September 2024  
Talk: Spectral gap and cutoff of the simple exclusion process with IID conductances
- Beijing Normal University, September 2024  
Talk: Spectral gap and cutoff of the simple exclusion process with IID conductances
- Universidade Federal da Bahia, June 2024  
Talk: Metastability for expanding bubbles on a sticky substrate
- Universidade de São Paulo, April 2024  
Talk: Mixing Time of ASEP in a random environment
- Conference: Probability and Statistical Physics, January 2024  
Talk: Mixing Time of ASEP in a random environment
- Beijing Normal University, January 2024  
Talk: Metastability for expanding bubbles on a sticky substrate
- Harbin Institute of Technology, December 2023  
Talk: Metastability for expanding bubbles on a sticky substrate
- Southern University of Science and Technology (SUSTech), November 2023

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- Talk: Metastability for expanding bubbles on a sticky substrate
  - Sichuan University, November 2023
    - Talk: Cutoff for polymer pinning dynamics in the repulsive phase
  - Academy of mathematics and system science, November 2023
    - Talk: Cutoff for polymer pinning dynamics in the repulsive phase
  - Nankai University, November 2023
    - Talk: Cutoff for polymer pinning dynamics in the repulsive phase
  - Tsinghua University, November 2023
    - Talk: Cutoff for polymer pinning dynamics in the repulsive phase
  - Harbin Institute of Technology, October 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 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, December 2022
    - Talk: The branching number of intermediate growth trees
  - Tsinghua U.-Peking U.-BKU Webminar, September 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

<b>语言能力</b>		
普通话（母语）； 粤语（母语）； 英语（流利）； 葡萄牙语（高级）； 法语（基础）		
<b>编程技能</b>		
Mathematica； MATLAB		
<b>学术期刊审稿资格</b>		
<ul style="list-style-type: none"><li>• Annales de l'Institut Henri Poincaré, Probabilités et Statistiques</li><li>• Annals of Applied Probability</li><li>• Annals of Probability</li><li>• Communications in Mathematical Physics</li><li>• Electronic Journal of Probability</li></ul>		
<b>获奖情况</b>		
Colman-Soref scholarship		2023, Israel
<b>其他经历</b>		
2018 ICM Volunteer (Rio de Janeiro)		