RENÉ PFITSCHER Ph.D.

CONTACT
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https://renepfitscher.github.io/

Université Sorbonne Paris Nord, Institut Galilée, 99 Avenue Jean-Baptiste Clément, 93430 Villetaneuse

PERSONAL

Citizenship: Italian

Languages: German, French, English, Italian (all fluent)

RESEARCH INTERESTS

Homogeneous dynamics, measure theory, harmonic analysis, geometry of numbers, diophantine approximation, random walks on Lie groups

EDUCATION

Université Sorbonne Paris Nord   Paris, France
Ph.D. in Mathematics   2022 - 2025
- Supervisor: Nicolas de Saxcé
- Ph.D. thesis: "Equidistribution, Siegel transforms, and counting rational approximations on flag varieties"

ETH Zurich   Zurich, Switzerland
B.Sc. and Master in Mathematics   2017 - 2022
- Supervisor: Manfred Einsiedler
- Master thesis: "Property τ via effective equidistribution of S-arithmetic orbits"
- GPA: 6.00/6.00.

AWARDS AND HONORS

- **Willi-Studer-Prize** for best graduate student, ETH Zurich, Switzerland   2023
- **Bocconi Scholarship**, Bocconi University Milan, Italy   2017

PUBLICATIONS AND PREPRINTS

1. **René Pfitscher**. Integrability of Siegel transforms and an application. *(submitted)*.

2. **René Pfitscher**. Counting rational approximations on rank one flag varieties. *(to appear in Israel Journal of Mathematics)*.

Université Sorbonne Paris Nord, Paris, France

• Bachelor, Algebra IV, TA	Spring 2025
• Master, Foundations of Algebra, TA	Fall 2024
• Bachelor, Analysis for Engineers, TA	Fall 2024
• Bachelor, Algebra IV, TA	Spring 2024
• Bachelor, Analysis I, TA	Fall 2023
• Bachelor, Algebra IV, TA	Spring 2023
• Bachelor, Analysis for Computer Science, TA	Spring 2023

ETH Zurich, Switzerland

• Bachelor, Analysis II, TA	Spring 2022
• Master, Functional Analysis I, TA	Fall 2021
• Bachelor, Algebra II, TA	Spring 2021
• Bachelor, Analysis I, TA	Fall 2020
• Bachelor, Analysis II, TA	Spring 2020
• Bachelor, Analysis I, TA	Fall 2019

Invited Conference Talks

- Diophantine Approximation, Fractal Geometry and Related topics, Université Gustave Eiffel, Paris 2024

Invited Seminar Talks

- ETH Zurich Ergodic Theory and Dynamical Systems seminar, May 2025

- Chinese Academy of Science Dynamics Colloquium, May 2025

- University of Science and Technology of China Dynamics Colloquium, April 2025

- Université Sorbonne Paris Nord Séminaire de l'équipe systèmes dynamiques, April 2025

- Aarhus Analytic Number Theory and Automorphic Forms seminar, February 2025

- Lille University Dynamics and Geometry seminar, January 2025

- Sorbonne Université Jussieu Dynamics seminar, November 2024

- ETH Zurich Graduate Geometry Colloquium, October 2023

- Université Sorbonne Paris Nord Ph.D. Colloquium, November 2022

Research Stays

- Institute of Mathematics, Chinese Academy of Sciences, Beijing, May 2025

- University of Science and Technology, Hefei, April – May 2025

- Aarhus University, February 2025