

Jérémie Klinger

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Born 12/12/1996



PhD

Laboratoire de Physique Théorique de la Matière Condensée

Paris, France

Random walks in confinement.

2020–

PhD advisors : Raphaël Voituriez and Olivier Bénichou

Defense scheduled in 2023

Keywords : Stochastic processes, first passage time, visited territory, jump processes, preferential search and optimisation.

Education

École Normale Supérieure / Institut Polytechnique de Paris

Paris, France

Master 2 ICFP, major Soft Matter and Biological Physics

2019–2020

Highest Honors

École Polytechnique

Palaiseau, France

Engineering Cycle, major Physics / Applied Mathematics

2016–2019

Highest Honors

Experiences

M2 internship at LPTMC, Sorbonne Université

Paris, France

Random Walks - Number of sites visited before exiting a domain, Ref. [\[P1\]](#)

April–

Advisors : Raphaël Voituriez, Olivier Bénichou

August 2020

M1 internship at Boston University

Boston, USA

Laser Induced Cavitation

April–August 2019

Advisor : James Bird

Conferences

Talks

◦ Journées de Physique Statistique, Paris (March 2022)

Joint statistics of space and time exploration of 1-d Random Walks

Posters

◦ Venice Meeting on Fluctuations in Small Complex Systems V, Venise, Italie (Octobre 2021)

Joint statistics of space and time exploration of 1-d Random Walks

◦ Journée de l'Ecole Doctorale de Physique d'Île de France, Sorbonne Université (June 2022)

Splitting Probabilities of 1-dimensionnal Jump Processes

Seminars

- Theory Seminar of Laboratoire Jean Perrin, Paris (May 2022)
Splitting Probabilities of 1-dimensionnal Jump Processes

PhD students seminar

- LPTMC PhD seminar, Paris (Decembre 2020)
Classical Random Walks : Old but Gold

Publications

- [P1] [J. Klinger](#), R. Voituriez, and O. Bénichou,
Distribution of the span of one-dimensional confined random processes before hitting a target.
Phys. Rev. E **103**, 032107 (2021).
- [P2] [J. Klinger](#), A. Barbier-Chebbah, R. Voituriez, and O. Bénichou,
Joint statistics of space and time exploration of one-dimensional random walks.
Phys. Rev. E **105**, 034116 (2021).
- [P3] [J. Klinger](#), R. Voituriez, and O. Bénichou,
Splitting Probabilities of Symmetric Jump Processes.
Phys. Rev. L **129**, 140603 (2022).

References

Olivier Bénichou
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Raphaël Voituriez
LJP, Paris France

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Satya Majumdar
LPTMS, Orsay France

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