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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

Teaching

Sorbonne Université, Paris, France

∘ **Physics M1** (2021-2022)
Computational Methods
Professor : Pascal Viot
Duration : 50h

∘ **Physics L2** (2020-2021)
Numerical Methods for Physicists
Professor : Pacôme Delva
Duration : 60h

Lycée Naval de Brest, Brest, France

○ **Preparatory Classes for Engineering Schools** (2017)
TA in Math and Physics
Duration : 4 month

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   oliverbenichou2@gmail.com
LPTMC, Paris France

Raphaël Voituriez   raphael.voituriez@gmail.com
LJP, Paris France

Satya Majumdar   satya.majumdar@universite-paris-saclay.fr
LPTMS, Orsay France