Carlos Buitrago

Curriculum Vitae

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Education

2020–2024 **Ph.D. in Mathematics**, Moscow Institute of Physics and Technology, Russia
Supervisor: M.E. Zhukovskii

2018–2020 **M.Sc. in Mathematics**, Moscow Institute of Physics and Technology, Russia
Supervisor: M.E. Zhukovskii

2014–2018 **B.Sc. in Applied Mathematics and Physics**, Moscow Institute of Physics and Technology, Russia.
Supervisor: Y. Y. Broslavets

Work Experience

2020–present **Moscow Institute of Physics and Technology (MIPT)**, *Lecturer* at the Department of Applied Mathematics and Computer Science, Russia

2023–present **Higher School of Economics (HSE University)** , *Guest Lecturer* at the Department of Computer Science, Russia

2022–2024 **Moscow Institute of Physics and Technology**, *Junior researcher* at the "Advanced Combinatorics and Network Applications Laboratory", Russia

Teaching Experience

2020–present **Probability Theory**, *MIPT* Russia
Link to Video Lectures. Fall 2021.(in English)

2022–present **Random Graphs**, *MIPT* Russia

2022–present **Mathematical Statistics**, *MIPT* Russia

2024–present **Stochastic Processes**, *MIPT* Russia
Link to Seminar recording. Fall 2024.(in Russian)

2022–present **Measure Theory**, *MIPT* Russia

2023–present **Discrete Mathematics**, *HSE* Russia

2020–2024 **Mathematical Logic**, *MIPT* Russia

Preprints

2025 J.C. Buitrago Oropeza, "*Concentration of the maximum size of an induced subtree in moderately sparse random graphs*".

Journal Publications

Oct 2024 J.C. Buitrago Oropeza, "*Maximum induced paths in random bipartite graphs*", Proceedings of MIPT. — 2024. — Vol. 16, no. 3.— P. 17—23. (in Russian)

May 2024 J.C. Buitrago Oropeza, "*Maximum Induced Trees in Sparse Random Graphs*", Dokl. Math. 109, 167–169 (2024).

Jan 2022 J.C. Buitrago Oropeza, "*Zero-one laws for random k-partite graphs*", Moscow Journal of Combinatorics and Number Theory 10-4 (2021), 315–337.

Contributed Talks at International Conferences

May 2024 The XI International Petrozavodsk Conference "Probabilistic Methods in Discrete Mathematics". May 27-31, Karelia, Russia.

Jul 2023 Latin American Congress of Probability and Mathematical Statistics (CLAPEM 2023), 10-14 July, São Paulo, Brazil.