Lucas Corrêa Lopes

POSTDOCTORAL RESEARCHER IN MATHEMATICS

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EDUCATION

University of Brasília (UnB) — Brasília, DF
PhD in Mathematics — 2022–2026
Advisor: Dr. Pavel Zalesski

University of Milano-Bicocca (UNIMIB) — Milan, Italy
PhD Sandwich — 2025–2026
Advisor: Dr. Thomas Weigel

Federal University of Rio de Janeiro (UFRJ) — Rio de Janeiro, RJ
MS in Mathematics — 2019–2021
Advisor: Dr. Ilir Snopche

Federal Rural University of Rio de Janeiro (UFRRJ) — Seropédica, RJ
BS in Mathematics — 2015–2019
Advisor: Dr. André Luiz Martins Pereira

RESEARCH EXPERIENCE

Federal University of Minas Gerais — Belo Horizonte, MG
Postdoctoral Researcher — Jun. 2026–Present
Funding: Conselho Nacional de Desenvolvimento Científico e Tecnológico

PUBLICATIONS AND PREPRINTS

1. **Lucas C. Lopes**, Pavel Shumyatsky, and Pavel A. Zalesskii. “Profinite groups with abelian Sylow subgroups.” *Communications in Algebra* **52**(1), 224–232 (2024). [doi]
2. **Lucas C. Lopes** and Pavel A. Zalesskii. “Prosoluble subgroups of the profinite completion of the fundamental group of compact 3-manifolds.” *Journal of the London Mathematical Society* **112**(4), e70330 (2025). [doi]
3. Simone Blumer, Julian Feuerpfeil, **Lucas C. Lopes**, and Claudio Quadrelli. “A cohomological translation of the Kaplansky radical for profinite groups.” Submitted (2026). [arXiv]
4. **Lucas C. Lopes** and Pavel A. Zalesskii. “Pro-C groups acting on profinite trees.” Submitted (2026). [arXiv]
5. Geovane M. L. Andrade, Martino Garonzi, **Lucas C. Lopes**, and Claude Marion. “On monomiality, generation and prime graphs of finite groups with the Magnus property.” Submitted (2026).

TEACHING

University of Brasília (UnB) 2024–2025

Undergraduate Teaching

Course: Differential and Integral Calculus

Federal University of Rio de Janeiro (UFRJ) 2020

Graduate Teaching Assistant

Course: Fields and Galois Theory

TALKS

Prosoluble subgroups of the profinite completion of the fundamental group of compact 3-manifolds **2025**

Mathematics Center of the University of Porto · Online seminar

Prosoluble subgroups of the profinite completion of the fundamental group of compact 3-manifolds **2026**

Algebra Seminar · University of Milano-Bicocca

Mixing groups, topology and graphs **2026**

SPAM · Federal University of Minas Gerais