

Lucas Corrêa Lopes

PHD · MATHEMATICS

Federal University of Minas Gerais

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Education

University of Brasília (UnB)

PHD IN MATHEMATICS

- Advisor: Dr. Pavel Zalesski

Brasília - DF

2022 - 2026

University of Milano-Bicocca (UNIMIB)

PHD SANDWICH

- Advisor: Dr. Thomas Weigel

Milan - MI

2025 - 2026

Federal University of Rio de Janeiro (UFRJ)

MS IN MATHEMATICS

- Advisor: Dr. Ilir Snopce
- Dissertation: A Characterization of the Closed Verbal Subgroups of Finitely Generated Pro- p Groups

Rio de Janeiro - RJ

2019 - 2021

Federal Rural University of Rio de Janeiro (UFRRJ)

BS IN MATHEMATICS

- Advisor: Dr. André Luiz Martins Pereira
- Undergraduate thesis: Philip Hall's Theorems and a Characterization of Soluble Groups

Seropédica - RJ

2015 - 2019

Research Experience

Federal University of Minas Gerais (Department of Mathematics)

POSTDOCTORAL RESEARCHER

Belo Horizonte, MG

Jun. 2026 - Present

Publications

Lucas C. Lopes, Pavel Shumyatsky and Pavel A. Zalesskii (2024). Profinite groups with abelian Sylow subgroups, *Communications in Algebra*.

Lucas C. Lopes and Pavel A. Zalesskii (2025). Prosoluble subgroups of the profinite completion of the fundamental group of compact 3-manifolds, *Journal of the London Mathematical Society*.

Simone Blumer, Julian Feuerpfeil, **Lucas C. Lopes**, Claudio Quadrelli (2026+). A cohomological translation of the Kaplansky radical for profinite groups. (Preprint)

Teaching

2024-2025 **Undergraduate Teaching (UnB)**, Subject: Differential and Integral Calculus

2020-2020 **Graduate Teaching Assistant (UFRJ)**, Subject: Fields and Galois Theory

Presentations

INVITED TALKS

2025. *Prosoluble subgroups of the profinite completion of the fundamental group of compact 3-manifolds*. Mathematics Center of the University of Porto, Online seminar.

2026. *Prosoluble subgroups of the profinite completion of the fundamental group of compact 3-manifolds*. Algebra Seminar, Università degli Studi di Milano-Bicocca.