

Jean Pierre Mutanguha

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Fayetteville, AR

Research Interests

Interested in geometric group theory: recently, I have been working on relating various dynamical properties of free group automorphisms/endomorphisms to algebraic or geometric properties of their mapping tori.

Education

PhD. Candidate in Mathematics 2014-Present

University of Arkansas

Research Interest: Geometric Group Theory

Advisor: Prof. Matt Clay

BSc. in Mathematics 2011-2014

Oklahoma Christian University

Honors Project: *Point-Set Topology and Unique Trigonometric Series Representation*

Minor: Finance

Research Articles

Hyperbolic Immersions of Free Groups.

[*submitted*]

arxiv: <https://arxiv.org/abs/1809.04761>

Irreducible Nonsurjective Endomorphisms of F_n are Hyperbolic.

[*in preparation*]

Irreducibility of a Free Group Endomorphism is a Mapping Torus Invariant.

[*in preparation*]

Teaching Experience

University of Arkansas 2014-Present

Instructor/Teaching Assistant

Calculus 3, Differential Equations

Survey of Calculus, College Algebra

Finite Math

Academic Recognition

John C Massie Memorial Fund	2017-2018
Lawrence Jesser Toll Jr. Endowed Fund	2015-2017
Outstanding MCIS Senior	2014
MCIS Alumni Scholarship	2013

Skills

Multilingual: English, French, Kinyarwanda, Kiswahili
Software: JAVA, NODEJS, PYTHON, L^AT_EX, R, Sage