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Research Focus

Research centered on the interface between phonetics and phonology, especially constraint-based approaches to linguistic variation and continuous phonetic data. Current work develops analysis frameworks that connect theoretical modeling with empirically grounded acoustic methodology.

Education

- 2025–present** **PhD in Linguistics (ongoing)**
University of Campinas (UNICAMP), Brazil
Research topic: *GradiEnt: A Phonological Analysis Model for Continuous Variables*. Advisor: Maria Filomena Spatti Sandalo. Research keywords: phonology; Harmonic Grammar.
- 2024–2025** **MA in Linguistics**
University of Campinas (UNICAMP), Brazil
Thesis: *GradiEnt: A Phonological Analysis Model for Continuous Variables* (awarded in 2025). Advisor: Maria Filomena Spatti Sandalo. Scholarship recipient: CAPES (Brazil).
- 2017–2023** **BA in Linguistics**
University of Campinas (UNICAMP), Brazil
Undergraduate thesis: *A Study of Dialect Contact from the Perspective of Harmonic Grammar*. Advisor: Maria Filomena Spatti Sandalo.
- 2014–2017** **Philosophy studies (not completed)**
University of Campinas (UNICAMP), Brazil
Undergraduate studies in Philosophy, discontinued in 2017.

Additional Training

- 2023** **Writing Workshop**
University of Campinas (UNICAMP), Brazil 8 hours
- 2023** **Comparative Variationist Sociolinguistics**
University of Campinas (UNICAMP), Brazil 12 hours
- 2022** **Speech Sounds and Structure**
University of Massachusetts Amherst, United States 52 hours

Research Projects

GradiEnt: A Phonological Analysis Model for Continuous Variables

2024–present

Research project - ongoing

Develops a cognitively plausible phonological methodology grounded in perception and articulation to analyze continuous phonetic variables within constraint-based phonology, especially Optimality Theory and Harmonic Grammar.

Funding: CAPES scholarship. Coordinator: Maria Filomena Spatti Sandalo.

A Study of Dialect Contact from the Perspective of Harmonic Grammar

2022–2023

Research project - completed

Examined whether Harmonic Grammar, together with the MaxEnt Grammar Tool, can provide explanatory models for linguistic variation arising from dialect contact between Northeastern Brazilian migrants and speakers from Sao Paulo.

Coordinator: Maria Filomena Spatti Sandalo.

Phonetic Variation in Vector-Space Models (PIBIC)

2018–2019

Research project - discontinued in 2019

Explored whether word-embedding approaches such as Word2Vec could be adapted to phonetics by mapping phones to vector representations based on their distributions in phonetic transcriptions.

Funding: CNPq scholarship. Coordinator: Pablo Picasso Feliciano de Faria.

Areas of Expertise

Linguistics

Constraint-based phonology

Harmonic Grammar

Optimality Theory

Phonetics-phonology interface

Continuous phonetic variation

Acoustic analysis methodologies

Linguistic theory and analysis

Prepared in English from the publicly available information in the source curriculum.