

# Jaider D. Torres

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## Summary

I am a master's student focusing on some aspects of the theory of algebras with polynomial identities (PI algebras) and their connections to geometry. Roughly, my project explores graded varieties of algebras as a geometric model, in particular, in the context of algebraic supergeometry, guided by my advisor's work on embedding theorems as a bridge between supertraces and supergeometry. I am motivated by a strong interest in understanding the intersections of algebra and geometry and their potential applications.

## Education

### Francisco José de Caldas District University

Bogotá, Colombia

B.S. IN MATHEMATICS

Feb. 2020 - Dec. 2023

- Twice awarded with honors, along with academic and administrative assistantships.

### State University of Campinas

Campinas, Brazil

M.S.C IN MATHEMATICS

Feb. 2024 - Now

- FAEPEX Scholarship Awardee.

## Skills

**Programming** Python, Matlab, LaTeX

**Languages** Spanish, English, Portuguese

## Extracurricular Activity

### University of Cundinamarca

Colombia

SPEAKER

May. 2023

- Speaker at 1st Latin American Translocal Meeting of Research Groups.

### UPTC and Colombia Society of Mathematics

Colombia

ASSISTANT

Jun. 2023

- Assistant at the XXIII Colombian Congress of Mathematics.

### Francisco José de Caldas District University

Colombia

PARTICIPANT

Jul. 2021, Jul. 2022 - Jun. 2024

- Active participant of Logic and Topology (LOTO) and Number Theory and Algebra (ITENUA) Research Groups.

### Industrial University of Santander

Colombia

SPEAKER

Dec. 2023

- Speaker at the XII Northeastern Mathematics Symposium.

### State University of Campinas

Brazil

SPEAKER

May. 2024

- Speaker at XVIII EnCPos.

### IMPA

Brazil

SPEAKER

Aug. 2024

- Speaker at V ELGA.

## Honors & Awards

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2022	<b>Honours</b> , Francisco José de Caldas District University	<i>Bogotá, Colombia</i>
2023	<b>Honours</b> , Francisco José de Caldas District University	<i>Bogotá, Colombia</i>
2023	<b>Academic Assistantship</b> , Francisco José de Caldas District University	<i>Bogotá, Colombia</i>
2023	<b>Administrative Assistantship</b> , Francisco José de Caldas District University	<i>Bogotá, Colombia</i>
2024	<b>FAEPEX Scholarship Holder</b> , State University of Campinas	<i>Campinas, Brazil</i>