

# JULIO CÁCERES GONZALES

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## TECHNICAL SKILLS

**Languages:** Python, Mathematica, SQL • **Additional Software:** Git, PyTorch, scikit-learn, NumPy, pandas, Anaconda, RStudio, Matlab, LaTeX, Snowflake

## EDUCATION

**PhD in Mathematics**, *Vanderbilt University* (4.00 GPA) 2019 – May 2024

Dissertation topics: Graph plana algebra embeddings and new  $A_\infty$ -subfactors.

**Master's in Mathematics**, *Universidade Federal de Santa Catarina (Brasil)* 2017 – 2019

**Bachelor of Science**, Mathematics, *Universidad Nacional de Ingeniería (Perú)* 2011 – 2016

## DATA SCIENCE EXPERIENCE

**Participant, Data Science Bootcamp** January – April 2025

*Erdős Institute*

- Developed a forecasting model to predict outages caused by severe weather events in a group of 3 using neural networks.
- Won “top project” honors in project competition.
- Completed comprehensive semester-long course on Data Science techniques.

## RESEARCH EXPERIENCE

**Doctoral Mathematics Researcher** 2019 – Present

*Vanderbilt University, Department of Mathematics*

- Built package integrating Python, Sage, Regina, and Mathematica to work with small dilatation pseudo-Anosov homeomorphisms using Veering triangulations to detect provable results.
- Solved open problems related to dynamics and symmetries of surfaces.
- Attended 7 conferences and delivered 11 invited academic talks developing both technical and non-technical communication skills.

## LEADERSHIP EXPERIENCE

**Instructor of Record** 2020 – Present

*Vanderbilt University, Department of Mathematics*

- Taught as Instructor of Record for 5 courses including Multivariable calculus and Ordinary Differential equations. Also served as TA for 5 calculus courses.
- Won the B.F. Bryant Prize for Excellence in Teaching based on exemplary student reviews.

## Leadership program

*Vanderbilt University, Career Center*

March 2024

- Participated in the first cohort of the ELEVATE leadership program.

## PUBLICATIONS *\*Authors listed in alphabetical order*

- [Graph planar algebra embeddings and infinite depth subfactors](#), Dietmar Bisch, Julio Cáceres, Operator Algebras (2024)