Julio Caceres

Personal Data

Place of Birth:	Lima, Perú
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Work and Education

Current	**Vanderbilt University** Postdoctoral Scholar
2019-2024	**Vanderbilt University** PhD Student in Mathematics Advisor: Dietmar Bisch Thesis title: Graph planar algebra embeddings and new A_∞-subfactors
2017-2019	**Universidade Federal de Santa Catarina (UFSC)**, Brazil *Master of Sciences - Mathematics* Advisor: Alcides Buss
2011-2016	**Universidad Nacional de Ingeniería (UNI)**, Perú *Bachelor of Sciences - Mathematics*

Academic Awards

2022-2023	Harold Stirling Vanderbilt award
2019-2021	Russell G. Hamilton Scholar

Publications

2025	Graph planar algebra embeddings and infinite depth subfactors joint with Dietmar Bisch International Journal of Mathematics 36 (2025), no. 13, 2550052 arXiv:2410.14819

Preprints

2026	The Carpenter Property for subfactors of uniform infinite index joint with Dietmar Bisch arXiv:2611.02006
2026	The relative dimension set of an extremal subfactor of finite index arXiv:2611.02336
2025	New hyperfinite subfactors with infinite depth joint with Dietmar Bisch Submitted to Advances in Mathematics arXiv:2509.00227

Grant Support

2023 | Summer support from US ARO grant W911NF2310026

Invited Presentations

July 2026	Virginia Operator Algebras Workshop Talk "New hyperfinite subfactors with infinite depth"
July 2025	Oberwolfach Research Institute - Subfactors and applications Talk "New hyperfinite subfactors with infinite depth"
November 2024	East Coast Operator Algebra Symposium Talk "New hyperfinite subfactors with infinite depth"
May 2024	Great Plains Operator Theory Symposium Talk "New hyperfinite subfactors with infinite depth"
October 2023	Graduate Student Seminar (at Vanderbilt University) Talk "Planar Algebras."
October 2023	ASUERAU C*-Seminar (at Arizona State University) Talk "Graph planar algebra embeddings and infinite depth subfactors."
September 2023	Subfactor Seminar (at Vanderbilt University) Talk "New hyperfinite subfactors with infinite depth."
August 2023	GOALS Research Showcase Talk "New hyperfinite subfactors with infinite depth."
June 2023	Groundwork in Operator Algebras Lecture Series (at Purdue University) Expository talks on "Subfactors."
September 2020	GOALS Seminar Talk "Hilbert Modules and Vector Bundles."
July 2018	ICM Operator Algebras Satellite Conference (at UFSC) Presented poster on "Cuntz-Pimsner Algebras associated to Vector Bundles."

Academic Services

2024-Present	Organizer of the **Directed Reading Program** at Vanderbilt University.
March 2026	Organizing team and session chair, **Shanks Workshop** at Vanderbilt University.
Fall 2023	Co-organizer of the **Directed Reading Program** at Vanderbilt University.
2016	President of the **Grupo Estudiantil de Matemática (GEM)**, UNI, Peru.

Mentoring

Spring 2022	Mentor for the **Directed Reading Program** at Vanderbilt University.
Spring 2020	Mentor for the **Directed Reading Program** at Vanderbilt University.
Fall 2019	Mentor for the **Directed Reading Program** at Vanderbilt University.

Teaching at Vanderbilt University

Fall 2026	Instructor for Introduction to Real Analysis (MATH 3100).
Spring 2026	Instructor for Introduction to Real Analysis (MATH 3100).
Fall 2025	Instructor for Differential Equations and Linear Algebra (MATH 2400).
Spring 2025	Instructor for Ordinary Differential Equations (MATH 2610).
Fall 2024	Instructor for Multivariable Calculus (MATH 2300).
Spring 2024	Teaching Assistant for Accelerated Single-Variable Calculus II (MATH 1301).
Fall 2023	Teaching Assistant for Accelerated Single-Variable Calculus I (MATH 1300).
Spring 2023	Teaching Assistant for Accelerated Single-Variable Calculus II (MATH 1301).
Fall 2022	Instructor for Accelerated Single-Variable Calculus I (MATH 1300).
Spring 2022	Teaching Assistant for Single-Variable Calculus II (MATH 1201).
Fall 2021	Instructor for Accelerated Single-Variable Calculus I (MATH 1300).
Spring 2021	Instructor for Accelerated Single-Variable Calculus II (MATH 1301).
Fall 2020	Teaching Assistant for Accelerated Single-Variable Calculus II (MATH 1301).
Spring 2020	Tutor for Calculus.
Fall 2019	Tutor for Calculus.

Languages

English:	Fluent
Spanish:	Mother tongue
Portuguese:	Fluent

Computer Skills

Basic Knowledge:	HTML,Visual Basic, Linux
Intermediate Knowledge:	Excel, MATLAB
Advanced Knowledge:	Mathematica, Python, LaTeX, Word, Powerpoint