



Giovanni (Ernesto) Ferrer (Suárez)
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Personal Data

1997 **Puerto Rico**, *Citizenship: US Citizen, EU Citizen (Spanish)*

Education

Exp. 2026 **The Ohio State University**, *Ph.D. in theoretical mathematics*, Advisor: David Penneys
2023 **The Ohio State University**, *M.S. in theoretical mathematics*, Advisor: David Penneys
2020 **University of Puerto Rico, Mayagüez Campus**, *B.S. in pure mathematics, minor in computational linguistics*

Research Experience

2025 **JSPS**, *Japan Society for the Promotion of Science*, summer 2025 fellow, Advisor: Yasuyuki Kawahigashi
2023 **DHC**, *Dagger Higher Categories workshop*, hosted by the Perimeter Institute for Theoretical Physics
2022 **CRM**, *Centre de Recherches Mathématiques*, concentration month, on the topic of Quantum symmetries: Tensor categories, Topological quantum field theories, Vertex algebras
2022 **AIM**, *American Institute of Mathematics*, workshop on Higher categories and topological order
2020 **GOALS**, *Groundwork for Operator Algebras Lecture Series*, student participant
2019 **SROP**, *Summer Research Opportunities Program*, at the Ohio State University

Teaching Experience

2024 **Calculus III**, *MATH 2153 at the Ohio State University*, graduate teaching associate
2023 **Calculus I**, *MATH 1151 at the Ohio State University*, graduate teaching associate
2023 – 2024 **MSLC**, *Mathematics and Statistics Learning Center*, at the Ohio State University, mathematics tutor
2017 – 2018 **Rumbo Ex**, *tutoring center at the University of Puerto Rico*, mathematics advisor

Mentoring Experience

2025 – 2026 **CYCLE**, *undergraduate research program*, mentoring undergraduate student Julia Circele
2022 – 2023 **CYCLE**, *undergraduate research program*, CYCLE Program, mentored undergraduate student Daniel Tcheurekdjian
2023 **REU**, *undergraduate research, joint with Anup Poudel and David Penneys*, mentored undergraduate student Jiaqi Lu
2022 **REU, ROMUS Program**, *undergraduate research, joint with David Penneys*, mentored undergraduate student Quinn Holt
2019 **REU, SAMMS Program**, *topology course TA and cohort mentor*

Awards

2025-2026 **Patrick S. Osmer Fellowship**, awarded at the Ohio State University

2025 **Special Graduate Assignment**, awarded at the Ohio State University

2020-2023 **Distinguished University Fellowship**, awarded at the Ohio State University

2020 **Karl Friedrich Gauss Award**, awarded at the University of Puerto Rico - Mayagüez

2019 **PR-LSAMP research scholarship**, awarded by the Puerto Rico Louis Stokes Alliance for Minority Participation

Select talks (with available slides)

2025 **BIMSA**, *Tsinghua Quantum Symmetry Seminar*, invited speaker, Higher Hilbert spaces and their operator algebras
[available online](#)

2025 **JSPS**, *Japan Society for the Promotion of Science*, poster session, Higher unitary quantum symmetries
[available online](#)

2025 **QSS**, *Quantum Symmetry Seminar (OSU)*, expositional talk, Sheaf theory for the operator algebraist
[available online](#)

2024 **NCGOA**, *Noncommutative Geometry and Operator Algebras*, speaker, Higher operator algebras
[available online](#)

2024 **OSLO**, *workshop at the University of Oslo on Quantum groups, tensor categories and quantum field theory*, speaker, Higher functional analysis
[available online](#)

2023 **DHC**, *Workshop on Dagger Higher Categories*, invited speaker, Operator algebraic tricategories
[available online](#)

2023 **GPOTS**, *Great Plains Operator Theory Symposium*, speaker, Operator algebraic tricategories
[available online](#)

2022 **GOALS**, *Groundwork for Operator Algebras Lecture Series seminar*, expositional talk, From C^* -algebras to W^* -algebras
[available online](#)

2021 **OSU**, *Workshop on Minimal modular extensions*, speaker, Braided 2-categories and higher Drinfeld centers
[available online](#)