SERBAN EUGEN CICORTAS

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EDUCATION

Ann. Henri Poincarè (2024).

Princeton University September 2021 - Present PhD in Mathematics Advisor: Igor Rodnianski. University of Cambridge, Trinity College October 2020 - July 2021 Master of Advanced Study in Pure Mathematics, Distinction Part III Essay: The Existence of Naked Singularities and Their Instability. Advisor: Mihalis Dafermos. **Princeton University** September 2016 - June 2020 Bachelor of Arts in Mathematics, Highest Honors Senior Thesis: Global Stability for Weak Null Wave Equations with Multi-localized Initial Data. Advisor: Sergiu Klainerman. RESEARCH INTERESTS Partial Differential Equations, General Relativity, Nonlinear Wave Equations **PUBLICATIONS** 5. Discretely self-similar exterior-naked singularities for the Einstein-scalar field system 2024 with Christoph Kehle arXiv:2412.09540. Submitted. 4. Systems of wave equations on asymptotically de Sitter vacuum spacetimes in all even spatial dimensions 2024 arXiv:2411.16655. Submitted. 3. Nonlinear scattering theory for asymptotically de Sitter 2024 vacuum solutions in all even spatial dimensions arXiv:2410.01558. Submitted. 2. Scattering for the wave equation on de Sitter space in all even spatial dimensions 2023 arXiv:2309.07342. Submitted. 1. Extensions of Lorentzian Hawking-Page solutions with null singularities, spacelike singularities, and Cauchy horizons of Taub-NUT type 2024

INVITED TALKS

"Singularities and Cosmic Censorship, from vacuum to matter" Fields Institute, Upcoming talk	Workshop, May 2026
PDE/Analysis Seminar, MIT, Upcoming talk	September 2025
Analysis Seminar, Cornell University, Upcoming talk	September 2025
Hyperbolic and Dispersive Equations on Curved Geometries Workshop, Simons Center	April 2025
Elaine Hubbard PDE Seminar, Georgia Institute of Technology	November 2024
Analysis Seminar, University of Toronto	November 2024
Princeton Gravity Initiative Workshop, Flash talk	March 2024
Princeton Graduate Student Seminar	February 2024
Mathematical GR and Hyperbolic PDE Seminar, Online talk	March 2023
Princeton Graduate Student Seminar	February 2023
TEACHING EXPERIENCE	
Teaching Assistant for Integration Theory, Complex Analysis	Fall 2024 - Present
Instructor for SLMath Summer School "Mathematics of General Relativity and Fluids"	Summer 2024
Preceptor for MAT 201 - Multivariable Calculus	Summer 2024
Preceptor for MAT 175 - Mathematics for Economics/Life Science	ces Fall 2023 - Spring 2024
Teaching Assistant for Integration Theory, Complex Analysis	Fall 2022 - Spring 2023
AWARDS	
Centennial Fellowship	2021 - 2025
Trinity Studentship in Mathematics	2020 - 2021
George B. Covington Prize in Mathematics	2020
Elected to Membership in the Society of Sigma Xi and Phi Beta	Kappa Society 2020
Peter A. Greenberg '77 Prize	2019
Princeton University German Department Book Prize	2017, 2018, 2019
SERVICE	
Referee for: Annales Henri Poincaré, Communications in Mathematical Physics, Anna	ls of PDE
Princeton-Cambridge Joint General Relativity Seminar Organize	er 2022-2025
Princeton Graduate Student Seminar Co-Organizer	2022-2023