SERBAN EUGEN CICORTAS

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EDUCATION

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 vacuum solutions in all even spatial dimensions 2024 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 2022 Ann. Henri Poincarè (online first) (2024).

INVITED TALKS

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	
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 Sciences	s 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
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Elected to Membership in the Society of Sigma Xi	2020
Elected to Membership in the Society of Sigma Xi Elected to Membership in the Phi Beta Kappa Society	
	2020
Elected to Membership in the Phi Beta Kappa Society	2020 2019
Elected to Membership in the Phi Beta Kappa Society Peter A. Greenberg '77 Prize	2020 2019 2019

2022-2023

Princeton Graduate Student Seminar Co-Organizer