Avinash Iyer

Email: a.s.iyer@outlook.com
Phone: (408) 203-8125
Website: ai.avinash-iyer.com

ABOUT ME
Mathematics PhD student at the University of Virginia interested in functional analysis.

EDUCATION
A.B., *summa cum laude* in Mathematics   May 2025
Occidental College, Los Angeles CA

COURSEWORK
Undergraduate: Linear Algebra, Advanced Linear Algebra, Abstract Algebra (I and II), Real Analysis (I and II), Complex Analysis, Ordinary Differential Equations, Partial Differential Equations, Set Theory and Foundations of Mathematics, Mathematical Methods of Physics (I and II), Amenability and C*-algebras (Honors), Algebraic Geometry (Independent Study)

PROJECTS AND EXPERIENCES
Honors Thesis: Central topic of amenability, with discussions of origins in measure theory, applications to functional analysis, representation theory, and operator algebras.

Research Experience for Undergraduates: NSF-REU at East Texas A&M University, member of the Complex Analysis research group under Dr. Mehmet Celik, studying excess area identities under operators on particular function spaces. Research presented at Occidental College and as a group at Joint Mathematics Meetings 2025.

Expository Writing: Website section focused on writing clear exposition of various topics in undergraduate and graduate theoretical mathematics.

AWARDS AND HONORS
Occidental College Dean's List   Fall 2021–Spring 2025
William Lowell Putnam Exam   1/120, 8/120
Benedict Freedman Senior Prize in Mathematics   April 30, 2025