

# Avinash Iyer

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

EDUCATION      A.B., *summa cum laude* in Mathematics      Conferred May 18, 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)

RELEVANT  
EXPERIENCE      *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
	President's Scholarship	Fall 2021–Spring 2025
	William Lowell Putnam Exam	1/120, 8/120
	Benedict Freedman Senior Prize in Mathematics	April 30, 2025