

# Avinash Iyer

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**ABOUT ME** Collaborative, academically-adept undergraduate seeking graduate schools and rigorous technical employment.

**EDUCATION** *Bachelor of Arts* in Mathematics May 2025 (Expected)  
GPA: 3.93  
Occidental College, Los Angeles, CA

**RELEVANT COURSES** **Completed Courses:** Linear Algebra, Abstract Algebra, Topology, Graph Theory, Real Analysis, Real Analysis II (Metric Spaces and Measure Theory), Algebra II (Ring Theory, Field Theory, and Galois Theory), Complex Analysis.

**Current Courses (Fall 2024):** Ordinary Differential Equations, Set Theory and the Foundations of Mathematics, Mathematical Methods in Physics, Advanced Linear Algebra, Amenability and  $C^*$ -Algebras (Honors Thesis independent study).

**Planned Courses (Spring 2025):** Partial Differential Equations, Statistical Physics, Amenability and  $C^*$ -Algebras.

**PROJECTS AND PAPERS** *Research Experience for Undergraduates:* NSF-REU at Texas A&M-Commerce, member of the Complex Analysis research group under Dr. Mehmet Celik, studying excess area identities under operators on particular function spaces. Publication forthcoming.

*Power BI Full Floor Dashboard:* project during internship at Onto Innovation, using Power Queries to harmonize different tool families' information, and used Synoptic Panel to visualize data.

*Personal Website:* used GitHub Pages and Jekyll to create a website for a portfolio in college.

**AWARDS AND HONORS** Dean's List Fall 2021–Spring 2024

President's Scholarship  
William Lowell Putnam Exam

Fall 2021–Present  
1/120, 8/120

WORK  
EXPERIENCE

Section Editor  
*The Occidental*

September 2023–Present

- Worked with senior team, co-editors, and writers to ensure high-quality opinion articles.
- Managed demanding weekly schedule while full-time student in upper division math and economics courses.
- Ensured all articles were harmonized with AP Style.

Staff Writer  
*The Occidental*

January 2022–Present

- Authored over 20 articles, including reported stories and opinions.
- Interviewed at least 3 sources per reported story, met demanding weekly schedule.
- Worked with editors to ensure high-quality story.

Data Analytics Intern  
*Onto Innovation, Milpitas, CA*

May 2023–August 2023

- Worked on process development within Metrology Business Unit.
- Improved Power Automate workflows for process improvements across 3 product families.
- Integrated data sources from manufacturing plans and floor information to create Power BI reports that provided at-a-glance understanding of state of manufacturing.

Grader  
*Mathematics and Economics Departments, Occidental College*

September 2022–May 2023

- Provided extensive feedback for student assignments in Intermediate Microeconomics and Calculus I.
- Maintained standards and deadlines alongside demanding class schedule and work for the newspaper.

SPECIALIZED  
SKILLS

*Languages:* Proficient in  $\text{\LaTeX}$   
*Enterprise Software:* Microsoft Office and Microsoft Power Platform  
*Spatial Thinking and Reasoning*  
*Mathematics and Computation*