

Krish Ramkumar

📍 New Haven, CT ✉ krish.ramkumar@yale.edu ☎ (201)466-1814 🌐 krishramkumar.com
in krish-ramkumar-7876901b1 📄 krishramkumar06

Education

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- Yale University** Aug 2024 – May 2028
BA in Mathematics; Certificate in Education Studies
- **Coursework:** MATH 226 (Intensive Linear Algebra), MATH 255 (Analysis), MATH 350 (Abstract Algebra)
 - **Activites:** President of Redhot & Blue of Yale; Director with Yale Splash; Tutor with Mathcounts; Peer tutor for MATH 222; Pedagogical Partner under Prof. Ana Cecilia Fieler for ECON 4407
- Bergen County Academies** Sept 2020 – June 2024
Academy of Business and Finance
- **Activites:** Math Team (Captain & Webmaster); BCDL Debate (Captain); IB Diploma (42/45)

Experience

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- AmeriCorps Teaching Fellow (ATF)** Denver, CO
Breakthrough Kent Denver June 2025 – August 2025
- 300-hour AmeriCorps service commitment teaching 7th grade math and Python to 30 under-served students
 - First ATF to pioneer YouTube content creation: design, record, and upload video lessons and materials
 - Support mission to expand educational opportunities for FGLI and ESL students through free programming
- Mathematics Tutor** Remote/NJ
Private Tutoring & YMath (YMCA) Sept 2020 – Present
- Tutored middle and high school students in AP Calculus BC, AP Physics C, & Competitive Math
 - Provided free tutoring for underprivileged students within Bergen County; YMath Board Member 2022-2024
- Research Intern** New York City, NY
Columbia University Sept. 2023 – April 2024
- Conducted Markov Chains and Probability research under mentor Prof. Ivan Corwin.
 - Conducted Python simulations on Random Walk coalescence times.
- Volunteer (Integrators Program)** New York City, NY
National Museum of Mathematics Sept. 2022 – Sept. 2023
- Interacted with visitors (on the Museum floor or online) and trained with professional educators
- Teaching Assistant** Hackensack, NJ
Bergen County Academies Math Dept. March 2023 – June 2023
- Independently taught 6 lessons (4x50 mins, 2x15 mins) to class of 15 under Dr. Michael Abramson.
 - Created accompanying undergrad-level [71 page textbook](#) [↗](#).

Projects

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- GOAT Climbing Gym Workout Tracker** [krishramkumar06/ibcsia](#) [↗](#)
- Rock Climbing Workout Tracker app coded in Swift with a MySQL database Node.js server backend
- Math Projects for IB Diploma** [krishramkumar06/ibmath](#) [↗](#)
- Conducted investigations of Godel's Incompleteness theorems, Euler's number, and directed graphs.

Technologies

Languages: LaTeX, Python, SQL, Swift, HTML/CSS, Java
Tools: Adobe Premiere, Obsidian/Markdown, LLM Prompting