Krisha Anant

626 Delaware Ave, Ridgewood, NJ 07450
(201)-354-8613 | krishaanant@gmail.com

EDUCATION

Ridgewood High School, Ridgewood, NJ   2018 - Present
GPA(U): 3.88 / 4.0, GPA(W): 4.36 / 4.0
ACT: 36 (Math: 35; English: 36; Reading: 36; Science 35; Writing 10)
SAT: 1560 (Math 800; ERW 760)
AP: Calculus AB 5; Seminar 5; Physics 1 5; Biology (2022); Chemistry (2022); Computer Science A (2022); Calculus BC (2022); English Literature and Composition (2022); Research (2022); Psychology (2022)

HONORS & AWARDS

Ridgewood High School High Honor Roll   2018 - Present

National Merit Finalist   2022

Region-At-Large East Young Writers Scholastic Art & Writing Awards   2022
- Silver Key, Poetry Portfolio, Sand Of An Hourglass
- Honorable Mention, Writing Portfolio, The Touch Of Consciousness

Ridgewood Association of Health Professionals | *Inducted Member*   2019 - Present
- Selected as one of 20 students to participate in this rigorous 3-year program at Ridgewood High School integrating advanced coursework combined with labs, research, internship and mentorship at Valley Hospital
- Followed tailored curriculum that included AP Capstone program, Anatomy & Physiology, and various English honors courses

New Jersey Science League | *Top 50, Biology Competition*   2019

National Technical Honor Society | *Inducted Member*   2020 - Present

National Spanish Exam | *Silver Medal*   2020

Ridgewood High School | *Maroon Award*   2021
- Awarded based on teacher nomination for facilitating the betterment of the school community through academics, extracurricular activities, service, and/or character
- Nominated for improvements and contributions to Asian Fest as a club leader

PROJECTS

Effects of a Fast Track Area on Length of Stay in Large Urban Nonteaching Hospitals | *AP Research Capstone*   2021 - Present
- Analyzed the effect of fast track areas on length of stay in emergency departments for low-acuity patients
- Conducted study in conjunction with the emergency department in Ridgewood Valley Hospital
- Collaborated with mentor, Head of Emergency Department Dr. Chelsey Lupica for statistical data capture
- Utilized R programming through R Studio to analyze data stored in Valley Hospital patient database
- Working toward completed research paper, to be completed by February 2022

How to Analyze Research Papers, YouTube Channel | *Channel Owner, Publisher*   Summer 2021
- Planned, filmed, edited, and published semi-weekly videos to inform high school students on how to read, understand, and critically analyze research papers; videos receiving as many as 10K views
- Covered a variety of research topics, including Parkinson's Disease and cell extrusion

"Duality" (ISBN 9781665706643) | *Author & Illustrator*   2020 - 2021
- Wrote and published a compilation of 50 poems exploring personal coming-of-age story, as well as abstractions of identity
- Curated overall book in collaboration with Archway Publishing, including design of front and back covers, order of poems and illustrations, and book and page design

SPECIAL PROGRAMS

Columbia University Science Honors Program, New York, NY   2019 - Present
- Selected through application and entrance exam to participate in advanced math and science program
- *Explorations in Data Science (Spring 2022)*: Analyze open NYC data using the statistical language R
- *Bioinformatics (Fall 2021):* Explored diverse topics including genome wide association studies, functional cancer genomics, and the human microbiome
- *Relativity and Quantum Physics (Spring 2021):* Introduced to topics in Einstein's special relativity and quantum physics; explored topics such as time dilation, wave interference, and mass-energy equivalence
- *Introduction to Algorithms (Fall 2020):* Analyzed data structures and algorithms; explored topics such as run-time analysis, complexity classes, and dynamic programming
- *Biochemistry (Spring 2020):* Explored chemical foundations for biological processes; investigated topics such as metabolic processes, mechanisms of biochemistry technology, and how structure and function relate to DNA, RNA, and proteins
- *Human Physiology (Fall 2019):* Introduced to the structures and function of the main organ systems of the body; explored topics in

respiratory, renal, and nervous systems, among others

Girls Who Code Summer Immersion Program, New York, NY   Summer 2021
- Attended 3-week intensive summer program to learn how to code in Javascript programming language
- Completed asynchronous modules in remote setting on coding in HTML, CSS, and Javascript, as well as website design

Mancia Labs, Columbia University, New York, NY | *Research Intern*   2020 - 2021
- Selected through interview to participate in Dr. Filippo Mancia's research on protein structure for Summers 2020 and 2021
- Program canceled both years due to COVID-19 related restrictions

Summer@Brown, Providence, RI | *Programming in R*   Summer 2020
- Attended 4-week intensive summer program to learn how to use R for statistical analysis
- Completed independent research project analyzing correlations among income, educational opportunities, and educational rigor
- Analyzed percentage of disadvantaged students in region based on average household income per school vs. standardized test scores

Columbia University Summer Immersion Program, New York, NY | *Intro to Neuroscience*   Summer 2019
- Attended 3-week intensive summer program to understand anatomy & physiology of the nervous system
- Engaged in various classroom lectures and lab activities, culminating in a final research
- Completed independent project on post-autopsy manifestations of Parkinson's disease in the midbrain

EXTRACURRICULAR ACTIVITIES

Green Team   2020 - Present
Ridgewood Village Green Team Student Liaison
- Selected as a student liaison for Ridgewood Village Green Team through application process and higher involvement in sustainability initiatives and activities
- Worked with town leaders on sustainability projects, such as surveys to gauge community interest in sustainability initiatives

Ridgewood High School Green Team Leader
- Worked on environmental sustainability projects, including the development of a school composting system, biodiversity surveys, and village-wide clean-ups
- Wrote a grant proposal to replace infested ash trees in Ridgewood with other native species
- Earned Bronze Certification of Sustainability from New Jersey Green Team as a representative of Ridgewood High School

Asian Fest | *Umbrella Leader, India Country and Performance Co-Leader*   2018 - Present
- Managed and executed event program schedule and club performances
- Transferred event to virtual setting for 2021; drew 500-member audience to annual event
- Promoted cultural diversity in annual event by extending outreach programs to the community to address discrimination towards Asian Americans; currently visiting Ridgewood elementary schools to raise awareness about AAPI Hate
- Designed and ordered merchandise, and led club meetings of approximately 100 performers
- Choreographed and taught dance and martial arts performances for the India contingent

Teens in Emergency Services, *Ridgewood, NJ | Member*   2021 - Present
- Received training and education on emergency medical services from licensed EMTs and other emergency professionals
- Achieved Stop the Bleed certification after training; pending CPR certification and EMT training

RHS Ambassadors | *Lead Ambassador*   2020 - Present
- Represented school in various social events to ensure that each RHS family is supported with any necessary resources
- Assisted freshman at orientation, guided families at parent-teacher conferences, and welcomed new students to school

Nrtyasagar Dance Academy, Nanuet, NY | *Teaching Assistant, Student*   2011 - Present

Western Classical Violin   2010 - Present

Indian Classical/Carnatic Violin   2015 - Present

COMMUNITY SERVICE

Ridgewood Library, Ridgewood, NJ | *Reading Team Volunteer*   Summer 2021

Caring for NYC, New York, NY   2019 - Present
- Distributed care packages to homeless population in New York City during holiday seasons
- Provided essential goods, such as blankets, socks, coats, non-perishable food, and hygienic goods

Juniper Village, Paramus, NJ   2019 - 2021
- Prepared for and performed annual performances at Juniper Village, assisted living facility, during holiday seasons
- Coordinated with musical troupe, including vocalists and other orchestra instrumentalists, to plan and execute performances

SKILLS & INTERESTS

- Fluent in English and Tamil, Conversational in Spanish and Hindi
- Proficient in Python, R, and Javascript programming languages