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EXTRACURRICULAR CLUBS AND ACTIVITIES

NYU Langone Research Hospital — Grades 10,11, and 12

Volunteer at NYU Langone Grossman School of Medicine

As an intern, collaborated with a research group at NYU Langone (under Dr. Anna Bershteyn, Assistant Professor, Department of Population Health at NYU Grossman School of Medicine) studying HIV in Africa. Wrote a paper that is currently being submitted to a journal. Learned complex linear algebra and surrogate modeling techniques and learned how to interface with large pre-existing code.

Math Team — Grades 9, 10, 11, and 12

Member coach, then Co-President

As a team coach, initiated regular training sessions and answer explanations through. Taught younger members how to solve problems from a range of topics, including geometry, number theory, counting and probability, algebra, and basic linear algebra. As Co-President of the club, fostered an environment of learning and collaboration. Selected learning materials and challenged club members to succeed.

Russian School of Mathematics Math Team — Grades 9, 10, 11, and 12

Member coach, then Co-President

As a team leader, solved complex problem sets and learned high-level mathematical theories. Led my team to victory in the 2021 Harvard MIT Math Tournament GUTS round, and I participated in the Berkeley Math Tournament, Yale Math Tournament, and Purple Comet Math Tournament.

Robotics Club — Grades 9, and 10

Member

As a team member, I participated in the FIRST FTC Robotics Competitions. Programmed a functional Kalman Filter to reduce noise in measured data. Competed in the regional competition and won the FIRST Tech Challenge Inspire Award.

Quiz Bowl — Grade 10

Member

As a member, participated in numerous competitions. Learned various information in literature, natural science, history, geography, and politics.

Chess **Grades 9, 10, 11, and 12**

Player

Rated 1394 as of October 2022. Highest rating achieved 1520. Participated in chess since 1st grade. Learned chess tactics, logical thinking, memorization skills, and visualization techniques.

HONORS/AWARDS

National Merit Scholarship **Grade 12**

Semifinalist

Scored 1510 on 2021 PSAT.

Westchester Science & Engineering Fair (WESEF) **Grade 11**

Silver Medal in Computational Biology/ Bioinformatics

As a contestant, competed in WESEF, a regional science research competition. Learned how to format and present scientifically oriented information. I placed 2nd in my category, Computational Biology/Bioinformatics.

Harvard MIT Math Tournament (HMMT) Nov 2021 **Grade 11**

Team Captain

As Captain, led a team of six students. In the Guts Round we placed #1 overall. In the Sweep Round we placed #7 overall out of 103 teams. As an individual, ranked #35 out of 554 individuals.

Scarsdale High School Signifier Honor Society **Grades 11, and 12**

Member

As a student, maintained a GPA above 3.7 for two years, and was involved in community service, so was invited to Signifier. As a member, tutored students who required assistance in math and science. Signifier is Scarsdale High School's academic honor society.

College Board **Grades 10 and 11**

AP Scholar

Scored a 5 in AP BC Calculus (2021), AP US History (2022), and AP Physics C: Mechanics (2022).

American Math Competition (AMC)

AMC12 **Grade 11**

Score 114, Certificate of Distinction, Bronze Certificate for Outstanding Achievement, AIME Qualifier

AMC10 **Grade 10**

Score 127.5, Certificate of Honor Roll Distinction, AIME Qualifier

AMC10 **Grade 9**

Score 117, Certificate of Distinction, AIME Qualifier

AMC10 **Grade 8**
Score 108, Certificate of Distinction, Young Student Certificate of Achievement, AIME Qualifier

American Invitation Mathematics Exam (AIME) Grades 8, 9, 10 and 11

AIME 2022
Score 6
AIME 2021
Score 8
AIME 2020
Score 8
AIME 2019
Score 6

Berkeley Math Tournament **Grade 11**

Member of Russian School of Mathematics Team

As an individual, placed 21st in the Calculus Round, earning a Distinguished Honorable Mention, and an Honorable mention in the Algebra Round.
As a team member, placed #26 overall.

Sienna College Programming Competition **Grade 11**

Honorable Mention

As a team member, received an Honorable Mention, for solving all the problems correctly..

Westchester County Math League **Grade 9**

Member of Scarsdale High School Math Team

As a student, achieved the High Achieving Scarsdale Freshman award by qualifying for the New York State Math League in 9th grade.

Math Kangaroo Exam **Grades 9 and 10**

Participant

In 9th grade, As an individual, placed #11 over the nation and #3 over the state. N 10th grade, As an individual, placed #1 over the nation and #1 over the state.

MATHCOUNTS

1st in State Team, 21st in State Individual **Grade 8**
1st in County Team, 2nd in County Individual
4th in State Team, **Grade 7**
Top 10 in County Individual

As a member of the Scarsdale Middle School Mathcounts team in 7th and 8th grade.

ATHLETICS

Scarsdale High School Squash Team **Grades 11 and 12**

Founding member, Player

Initiated Scarsdale's Squash Team, which I am a member of. Competed in the FairWest High School League, then went on to compete at the National Interscholastic Championship at the Arlen Specter Center in PA. We are still campaigning to make squash a Varsity sport at our school.

COMMUNITY SERVICE/ VOLUNTEER WORK

Eastchester Community Action Partnership (ECAP) **Grades 11 and 12**

Volunteer at the After School Program

As a volunteer, tutored low-income and at-risk children in my area in math, science, and English on a weekly basis. Building on my weekly volunteering, I was asked to teach chess at their summer camp. Chaperoned on field trips. Learned how to explain concepts to people who did not have any past exposure to them, and resolve conflicts.

Math Kangaroo **Grade 11**

Teaching Assistant

As a teaching assistant, taught 3rd & 4th Grade math class run by Math Kangaroo. Learned how to prepare a lesson plan and teach others new information. Only students who scored in the top 3 rankings in the Math Kangaroo competition are offered this opportunity. It's a 12-week class, run by Dr. Zoya Dimitrova

WORK EXPERIENCE

Tutoring **Grades 11 and 12**

As a tutor, taught 8th graders and up topics in Algebra 2, Geometry and Trigonometry.

Referee **Grade 9**

As an Assistant Referee (Linesman) and Center Referee, refereed for middle and high school WSYL (Westchester Soccer Youth League) games. Learned conflict resolution techniques, as well as