

Carina X. Guo

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Personal Website: carinaxguo.me (contains content that is hyperlinked below)

EDUCATION

University of Pennsylvania, Jerome Fisher Program in Management & Technology - Philadelphia, PA AUG 2022 - MAY 2026
University of Pennsylvania Management & Technology Summer Institute College Credit Course (A)

Richard Montgomery High School (RMHS) - Rockville, MD AUG 2018 - JUN 2022

International Baccalaureate (IB) Magnet Program (GPA: 4.0/Weighted GPA: 4.85)

APs (out of 5): AP Computer Science Java (5), AP Calculus (5), AP Statistics (5), AP Macroeconomics (5), AP Microeconomics (5), AP Physics C: Electricity and Magnetism (5, self-study), AP Physics C: Mechanics (4), AP English Literature and Composition (5), AP U.S. History (5), AP U.S. Government (5), AP Spanish (5), AP Psychology, AP Music Theory (5)

IBs (out of 7): IB Spanish (7), IB Global Politics (6), IB Analysis Statistics Calculus, IB History, IB Literature, IB Physics, IB Multivariable Calculus, IB Differential Equations, IB Philosophy

SAT: 1570 (Reading and Writing - 780, Math - 790, Essay - 18), 800 (SAT Math II)

EXPERIENCE

Intern, Professor Rena Conti (Boston University) & Professor Jonathan Gruber (MIT) JUN 2021 - PRESENT

- Research and assist pending paper, "The role of intellectual property protections in the development of COVID-19 vaccines."
- Evaluate 500+ COVID vaccine clinical trials and determine statistics on location, vaccine platforms, agreements, etc.
- Investigate impacts of compulsory licensing, manufacturing contracts, and IP agreements on COVID vaccine development based on Securities and Exchange Commission company filings.
- Research, assist revisions, and compile source data for *Public Finance and Public Policy*, 7th Ed. textbook, one of the most-used public finance textbooks in the United States.

Student, University of Pennsylvania Management & Technology Summer Institute SUMMER 2021

- Studied Harvard Business School company case studies (IDEO, LinkedIn, Dropbox, etc.), attended seminars with entrepreneurs (Strella Biotech, Niantic, Lia, etc.), and built Arduino circuits.
- Built circuit [prototype](#), developed [website](#), and prepared the [executive summary](#) for our product: FulPillment, a smart pillbox and smartphone app duo that automatically keeps track of pill-taking and reminds the user to take/reorder them.

Teaching Assistant, Art of Problem Solving Academy SUMMER 2020

- Taught 50+ middle and high school students concepts for AMC 10/12 alongside college instructors.
- Administered math competitions for students, writing questions and mentoring contestants.

Fellow, Democracy Summer (Congressman Jamie Raskin) SUMMER 2019

- Conducted case studies and cost-benefit analyses on policies including gun control.
- Lobbied in Congress for bipartisan legislation and canvassed in various communities across Maryland and Virginia.

Others

- University of Pennsylvania, Future of the Business World Program, Summer 2020
- Yale University, Economics for Leaders Program (Foundation for Teaching Economics), Summer 2020
- Harvard International Economics Essay Contest, 2020: "[The Big Brother Watching Us Today: Groupthink](#)"
- Wharton Global High School Investment Competition, 2020: [Final Investment Paper](#)
- International Leadership Foundation Asian-American Youth Entrepreneurship and Innovation Contest, 2019: [EconomEco](#)

SCHOOL LEADERSHIP

Co-Founder, RMHS National Debate Team & Captain, Potomac Debate Academy AUG 2018 - PRESENT

- Lead research efforts, prepare cases, and debate domestic and foreign policy (e.g., international lending, federal debt reduction, corporate regulation, climate change policy, social spending, military expansion, etc.).
- Compete in Public Forum debate for my seventh year at Potomac Debate Academy (now Captain over 400+ students), championing Nationals, Georgetown, and Ridge, and reaching semi-finals at Harvard, Yale, and Stanford. Currently individually ranked 1st/18,000+ nationally.

Captain, RMHS Math Team AUG 2018 - PRESENT

- Compete nationally and locally (county-level, AMC/AIME, Math Prize for Girls Competition, JHMT, HMMT, ARML, UMD, etc.).
- Write curriculum, present and lead team practices 1-3 times a week on probability, number theory, etc., and tutor students up to multivariable calculus.

Captain, RMHS Computer Team

AUG 2018 - PRESENT

- Run RM's own yearly programming competition, RMPC, compete nationally (ACSL, Lockheed Martin Code Quest, picoCTF), and tutor AP Computer Science Principles and Computer Science A.
- Write curriculum and present weekly on Java, Python, graph theory, cybersecurity, networks, etc.

Executive Vice President, RMHS Distributive Education Clubs of America (DECA) Team

AUG 2018 - PRESENT

- Organize and compete in international, state, and regional conferences in new divisions each year.
- Prepare presentations and lead practices for finance, marketing, hospitality, business law, etc.

AWARDS

DECA/Entrepreneurship

- **2ND PLACE**, DECA International Conference, Financial Services Division, 2021
- **1ST PLACE**, DECA State Conference, Business Finance Series, 2022
- **1ST PLACE**, DECA Regional Conference, Marketing Division, 2021
- **2ND PLACE**, DECA State Conference, Business Law and Ethics Division, 2020
- **1ST PLACE**, DECA State Conference, Business Law and Ethics Division, 2019
- **3RD PLACE**, International Leadership Foundation (ILF) Entrepreneurship and Innovation Contest, 2018

Debate

- **1ST/18,000+ DEBATERS**, National Speech and Debate Association Rankings, Public Forum Division, (as of March) 2022
- **CHAMPION (OUT OF ~325 TEAMS)**, National Speech and Debate Association National Championship Tournament (competitors chosen from qualifying district-level tournaments, then debated 17 rounds at Nationals to become champion), Public Forum, 2021
- **CHAMPION (OUT OF ~200 TEAMS)**, 48th Annual Harvard National Forensics Tournament, 2022
- **CHAMPION (OUT OF ~175 TEAMS)**, 47th University of Pennsylvania Tournament, 2022
- **TOP 4 (OUT OF ~250 TEAMS)**, 47th Annual Harvard National Forensics Tournament, 2021
- **TOP 4 (OUT OF ~200 TEAMS)**, 35th Annual Stanford Invitational, 2021
- **1ST PLACE SPEAKER (OUT OF ~150 SPEAKERS), CHAMPION (OUT OF ~75 TEAMS)**, Georgetown Debate Tournament, 2020
- **TOP 4 (OUT OF ~300 TEAMS)**, Yale University Invitational Debate Tournament, 2020
- **1ST PLACE SPEAKER (OUT OF ~200 SPEAKERS), TOP 8 (OUT OF ~100 TEAMS)**, Mid-America Cup Debate Tournament, 2020
- **2ND PLACE (OUT OF ~35 TEAMS)**, Georgetown International Public Forum Tournament, 2019

STEM

- **QUALIFIER**, MIT Math Prize for Girls 2021 (top 300 female scorers in the American Mathematics Competition (AMC), the most prestigious in the US with 300,000+ competitors each year), 2021
- **THREE-TIME QUALIFIER**, American Invitational Mathematics Examination (AIME) (top 5% of AMC testers), 2020, 2021, and 2022
- **SILVER FINALIST**, American Computer Science League (ACSL) All-Star Competition, Intermediate Division, 2020
- **1ST PLACE**, American Computer Science League (ACSL) All-Star Competition, Junior Division, 2018

C-SPAN

- **RECOGNITION**, Gov. Larry Hogan and Sen. Chris Van Hollen ([Link](#)), 2021
- **3RD PLACE**, C-SPAN StudentCam, HS Division ([Flatlining: The Case for Healthcare Expansion](#)), 2021
- **HONORABLE MENTION**, C-SPAN StudentCam, HS Division ([Funding the Future: Teachers in 2020](#)), 2020
- **HONORABLE MENTION**, C-SPAN StudentCam, HS Division ([Crossing the Oceans](#)), 2019

COMMUNITY SERVICE & LEADERSHIP

President, Paper Bridges International Non-Profit Organization, Maryland Chapter

AUGUST 2018 - PRESENT

- Initiated the first education-based project in Paper Bridges, currently having sent 400+ books abroad.
- Diversify perspectives of advisory board by finding individuals with experience serving abroad e.g., Peace Corps volunteers.
- Contact media sources and schools, organizing 12 high school chapters to write letters to inspire orphans around the world.

President, Beyond Resolved Non-Profit Organization, Maryland Chapter

AUGUST 2018 - PRESENT

- Organize panel discussions, fundraisers, and debate tournaments to help alleviate gender, race, and wealth-based inequities in the speech and debate community.
- Reach out to all 497 high schools in Maryland to spread debate fundamentals and resources.

Delegate Advisor, RMHS Student Government Association Executive Board

AUGUST 2018 - PRESENT

- Coordinate class representatives for RMHS student body of 2,400+ and run monthly general assemblies.
- Oversee fundraisers, supply drives, and projects for medical research charities, disaster relief programs, and local businesses.
- Code programs and create databases to track student involvement efficiently.