

+ employment

Research Experiences for Undergraduates at Emory University

Research Intern

Jun 2017 to Jul 2017

Participated in Emory University's REU (Research Experiences for Undergraduates), a 6-week number theory research program headed by Ken Ono. Awarded through and sponsored by the Templeton-Ramanujan Summer Fellowship. Conducted research on producing an infinite class of polynomials that satisfies the Riemann Hypothesis. Paper: <http://tinyurl.com/CuretonYeo>, submitted for publication.

PixelHacks

Founder/Executive Director

Oct 2016 to Present

Cofounded and presided over PixelHacks (www.pixelhacks.com), the Bay Area's first all-female high school hackathon.

Brace-Ed

Founder/Teacher

Mar 2016 to Present

Run weekly paid-tuition classes to teach high school students the fundamental concepts in core subjects (for now, just math and computer science). I have taught 18 students (in the past 2 school years) who have been unable to receive a satisfactory calculus education at school fundamental calculus concepts to guarantee them to pass the AP exam. In 2016, all of my students except one received a 5 on their AP Calculus AB exam, despite them entering my class with an average of 2 on their diagnostic AP exam. Check out www.brace-ed.tech for more information.

Khan Academy

Head Coordinator of Khan Academy's Student Advisory Council

Jul 2015 to Present

The council is made up of about 30 high school and college students, who serve as student advisors for Khan Academy over the course of a full academic year. The mission of the council is to help Khan Academy create a better educational experience for students. I lead the council of students by designing, administering, and reviewing projects that improve Khan Academy's content and strategy (for example, reviewing math and science videos/articles and providing feedback on how the articles could be improved for students).

Khan Academy

Content Team Intern

May 2015 to Jun 2015

Worked as part of the Content team to complete a variety of projects efficiently.

- Evaluated ~2000 videos for the Khan Academy Talent Search video contest.
- Created math and computer programming exercises and quizzes.
- Designed illustrations for the website's interface and math exercises.
- Tabulated 1500 responses from a survey regarding educational YouTube channels.- Evaluated all applications for the Student Advisory Council.

+ volunteering

High School Mathematics Journal

Editor

Present

Review research publications and edit submissions for High School Math Journal (www.hsmathjournal.com), the first math journal dedicated to publishing high schoolers' mathematical research.

San Jose Math Circle

Mentor

Present

Volunteer and help out at the San Jose Math Circle, a math circle for middle school students. Also run a monthly contest for the students, challenging them to tackle difficult math problems with persistence and creativity.

Girls Teaching Girls To Code

High School Liaison

Present

Organize community events (like CodeCamp, Hour of Code, and other workshops) to encourage girls to be interested and pursue STEM subjects. Ran app development workshops at my local library and mentored Girls Who Code clubs, teaching middle school girls JavaScript and AppInventor concepts and guiding them to apply these concepts to complex applications (i.e. websites, games like Flappy Bird, and Android apps).

ExpII

Editor

Made over 150 total contributions on ExpII, an online educational resource for math and science. Created many explanations and problems. Active member of girls@expII. User profile: <https://www.expII.com/user/2162>

Wikipedia

Editor

Present

Made 500+ contributions since 2012, including creating new articles, adding content to existing articles, updating facts, and verifying content validity. Achieved special editor privileges since Jan 2014. Leading active member of WikiProject Swimming (articles related to competitive swimming).

+ education

Stanford Online High School

UN Linear Algebra, UN Modern Algebra, UN Level

Real Analysis, Advanced Topics in

Microeconomics, Advanced History Research

Seminar, Democracy, Freedom, and the Rule of

Law, Critical Reading and Argumentation, AP

Physics C Electricity & Magnetism, AP Physics C

Mechanics, AP Statistics, AP US History, AP

Biology, AP Literature

Activities: FTC Robotics Team 5206 (Software

Lead), Math Club

Basis Independent Silicon Valley

Post-AP Number Theory, AP Calculus BC, AP

English Language & Composition, AP Computer

Science A, AP Economics (Microeconomics &

Macroeconomics), AP US Government, AP World

History

Activities: National Economics Challenge

(Captain), Math Club, Girls Who Code (Mentor)

+ awards

Emory University, Templeton World Charity Foundation, ExpII

Spirit of Ramanujan Math Talent Initiative Fellowship Recipient

The Spirit of Ramanujan Talent Initiative seeks to discover mathematical talent from around the world. 1 of 10 applicants awarded the Templeton-Ramanujan Summer Fellows Prize to attend and participate in approved summer research in mathematics. Featured as a Top Scorer here: <http://blog.expII.com/2016/05/03/top-score-tuesday-catherine-yeo/>

she++ · She++ #include Fellow

1 of 30 students selected nationally out of over 500 students to present my work with PixelHacks at the annual #include Summit held at Stanford University in an all-expense paid weekend in the Silicon Valley.

AppleWWDC Scholarship Recipient

WWDC Scholarships reward talented students and STEM organization members with the opportunity to attend Apple's Worldwide Developers Conference.

2016 NCWIT Bay Area Affiliate Award for Aspirations in Computing Winner

1 of 30 winners selected from the San Francisco Bay Area by NCWIT "in recognition of excellent aptitude and interest in computing, solid leadership ability, good academic history, and future plans in the field of computer science."

CollegeBoard · National AP Scholar

Received in 10th grade. Granted to students in the United States who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams.

2015, 2016 NCWIT Award for Aspirations in Computing National Runner-Up

The National Center for Women & Information Technology (NCWIT) awards the top 10% of applicants "in recognition of excellent aptitude and interest in computing, solid leadership ability, good academic history, and future plans in the field of computer science."

Council for Economic Education · North California Economics Challenge State Championship Finalist

Team qualified for State Championship Finals by placing in the top 5 of Northern California. Only all-freshman team.