

Peter Choi

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EXPERIENCES

Science Olympiad Captain

August, 2020 - May 2024

Lamar Academy; Mcallen, Texas

- Sought opportunities for competition and better materials for the team by obtaining funding from the school and community through various fundraisers and donation letters, receiving approximately \$10,000 of additional funding from community members during the 23-24 school year
- Oversaw the team's overall dynamic and performance as captain, through individual meetings with members and group meetings with the other coaches/captains, helping the team rise from 22nd to 5th in the state
- Personally obtained 1st in Astronomy, 2nd in Cybersecurity, among other placements at the Texas State competition, UT Invitational, and other competitions

Math Club President/Founder

January 2021 - May 2024

Lamar Academy, Mcallen, TX

- Introduced peers to competitive mathematics through lectures, notes, problem sets, and other resources that I collected and created, bringing AMC testing opportunities to our school
- Taught topics in number theory, linear algebra, cryptography, real analysis, and more through a lecture series aimed at introducing my peers to new areas of mathematics; additionally created lecture notes and led reading groups on certain topics
- Grew the club from 2 to 15-20 consistent members
- Additionally introduced members to other competitions such as USACO and USAPhO

Community Cleanup Organizer

August 2021 - May 2023

We Mean Green, Mcallen, TX

- Gathered community members from neighboring schools to engage in park cleanups following the pandemic through social media posts and school announcements, resulting in 30-40 community members helping to clean up Fireman's Park and Airport Park in Mcallen, Texas
- Taught and organized lessons on recycling practices and more to elementary school students through the environmental club's efforts
- Created Scratch games to help teach elementary students proper recycling methods

Research

August 2021 - May 2023

University of Texas Rio Grande Valley, Edinburg, TX

- Created an alternative fabrication method for polymeric heart valves using an intraleaflet fiber mesh layer that increased the structural integrity of polymeric valves, resulting in a published paper and a provisional patent
- Utilized the university lab for leaflet prototype production for stress-testing and also tested other fiber mesh orientations using finite element analysis models in ABAQUS

EDUCATION

University of California, Berkeley

August 2024 - (current)

Mathematics Major

Relevant Coursework: CS61A, Math 53, Math 54, EECS16a

Lamar Academy

August 2020 - August 2024

SKILLS/ACCOMPLISHMENTS

USACO Gold - C++

3X AIME Qualifier

VOLUNTEER EXPERIENCES

- Regularly organized repertoire and performed violin solos and ensemble work with peers at the Briarcliff Center (Mcallen, TX)
- Led and performed quartets for community events including school graduations, museum events, etc.