

HA QUACH

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Lincoln Southwest High School – Senior

Education

- GPA: 4.00 unweighted / 4.46 weighted
- ACT: 35 (E:35, M:35, R:36, S:34)
- ACT super score: 36/36 (E:36 M:35 R:36 S: 35)
- AP Courses: Human Geography (4), Calculus BC (5), CS Principles (4), Biology (4), World History (5), Chemistry (5), English Language & Composition, US History (4), Physics, Psychology
- University of Nebraska Lincoln: Calculus III (A, 10th), Linear Algebra (A, 11th), Differential Equations (12th)
- Self-study: AP Statistics; Python Programming & Data Structures (University of Michigan, Coursera)

Extracurricular Activities & Leadership

Math Club (9th–Present)

MATHCOUNTS - A national middle school mathematics competition.

- Top four students in Nebraska qualifying for MATHCOUNTS National Competition in Washington D.C (7th)- joined online competition because of COVID.

AMC 10/12 - The MAA's American Mathematics Competitions (8th to Present)

- Two-time qualifier for AIME in 9th grade and 11th grade *represent the top 2.5% of AMC 10 and AMC 12 test-takers. AIME score: 4
- 4X Young Women in mathematics Award Winners – Certificate Winners, 2022 (8th), 2023 (9th), 2024 (10th), 2025 (11th), recognizing the top-scoring girls in AMC test.

UNL Math Day – University of Nebraska Lincoln Math Day (8th to Present)

- Rank # 8 in PROBE I & II individual competition 2021: Forty-three Nebraska high schools and nearly 600 students participated (8th)
- Rank # 14 in PROBE I & II individual competition 2022: Fifty-nine Nebraska high schools and nearly 500 students participated (9th)

- Rank# 7 in PROBE I & II individual competition 2023 – 2024: Sixty-eight Nebraska high schools and more than 500 students participated (10th)

UNO (University of Nebraska Omaha) Problem Solving Contest (9th to present)

- 3X first place in Multiple Choice 10th, 11th, 12th grader Euler for individual competition.
- 1X first place in free response 10th grade Euler for individual competition.
- 4X top 10 students overall math competition.

Science Olympiad (9th–Present)

- 9th Grade: 2nd place Codebusters, 6th place Engineering (State Competition, 2022). ▪ 10th Grade: 2nd place Forensics, 6th place Codebusters & Anatomy (Kansas Regional Competition, 2023).
- 10th Grade: 3rd place Forensics, 4th place Codebusters (State competition, 2023). ▪ 11th Grade: 3 Gold medals in Forensics, Codebusters, and Entomology, 3rd place Chemlab (State Competition, 2024).
- 11th Grade: 2nd in Forensics, 3rd place Codebusters (Kansas Regional Competition, 2024).

Orchestra (9th–Present)

- All-State Orchestra (12th to present)
 - Participation is by audition for violin.
- The Junior Youth Orchestra – JYO all -district orchestra (9th)
 - Participation is by audition for violin
- Lincoln Youth Symphony – LYS Orchestra (9th to present)
 - Joined Nebraska Youth Symphony to perform New Year Festival music in Rome - Italy December 28, 2023 to January, 4 2024.
- Highschool Orchestra (9th to present)
 - Playing in varsity and chamber orchestra.

Speech Team – Duo Interpretation (9th–Present)

- 2x NIETOC qualifier (10th–11th)

Teaching & Mentoring (10th -present)

- Private Violin Instructor (1 middle school student, 11th–Present)
- Math Club Teaching Assistant – Scott Middle School (10th–Present)

Summer Programs & Internships

- Cryptography Camp, University of Nebraska Lincoln. June 11-16, 2023 (9th)
- Explorations in Biology Camp, Nebraska Wesleyan University. June 19-22, 2023 (9th)
- AwesomeMath Summer Program(10th)
- Girls Who Code (10th)
- Summer research intern, Dr. James Schnable Lab-University of Nebraska Lincoln: from 6/23/2025 to 8/23/2025.
- The Bethel College Summer Science Institute (BCSSI) from July 13 to July 18, 2025 (free)

Independent Research Project

- A simple and efficient large scale genomic DNA extraction protocol for PCR-based genotyping of crop plants.

Awards & Honors

- 2020-2021 Grand Honors: Students with the ACT scores in the highest tier in the Johns Hopkins Center for Talented Youth (7th – 8th)
- The Davidson Young Scholars: a program designed to support the educational and developmental needs of profoundly intelligent young people between the ages of 5 and 18 in the United States (8th to present)
- Honor Roll with Highest Distinction term 1 & 2 the 2022-2023 school year; for students have GPA >4.25 (9th)
- Rating of 1 Solo and Small Ensemble Contest Lincoln Public School Music Department (9th) ▪ Academic letter (10th)
- Rating of 1 Solo and Small Ensemble Contest Lincoln Public School Music Department (10th) ▪ Honor Roll with Highest Distinction term 1 & 2 the 2023-2024 school year; for students have GPA >4.25 (10th)
- Certificate of Achievement in Mathematics issued by Lincoln Elks Lodge No.80 May 2025 (11th) ▪ National Merit Scholarship Semifinalist 2025 (12th)
- AP Scholar with Distinction 2025 (12th)

Scholarships

- \$750 for top 4 students qualifying for MATHCOUNTS National Competition awarded by MATHCOUNTS Foundation National Competition (7th)
- \$250 for top 4 students in MATHCOUNTS State Competition (7th) awarded by Nebraska MATHCOUNTS
- \$2,000 for top 10 students on PROBE II exam Problems Requiring Original and Brilliant Effort awarded by University of Nebraska Lincoln - UNL math day 2021. (8th)
- \$500 for top 25 students on PROBE II exam awarded by University of Nebraska Lincoln - UNL math day 2022 (9th)
- \$2,000 for top 10 students on PROBE II exam Problems Requiring Original and Brilliant Effort

awarded by University of Nebraska Lincoln - UNL math day 2024. (10th)

- \$500 for each student who won state championships in Science Olympiad. (11th)

Leadership Roles

- Officer in school math club from 9th grade to present.
- Co-president in school Science Olympiad 10th grade to present.
- Concertmaster in varsity School Orchestra & Chamber Orchestra
- Concertmaster in Apollo Orchestra - Volunteer Music Ensemble
- Leading a project that collects and purchases used iPads from universities and individuals, ensuring they are still in good condition, to donate to elementary and middle schools in rural areas of Vietnam. Currently collected 36 Ipads and sent 15 to Vietnam.

Work Experience

Cherry on Top (Ice Cream Shop) — Cashier & Shop Assistant

June 2022 – Present | 5–10 hours/week

- Handled cashier duties and customer transactions
- Maintained cleanliness and hygiene standards
- Organized inventory and assisted with shop setup

Airbnb Property Manager Assistant

May 15 – August 15 | 10-20 hours/week

- Managed two Airbnb properties
- Set up and arranged furniture for guest readiness
- Took and edited photos for listings
- Wrote and updated online advertisements
- Performed regular cleaning

Volunteers

Math Club Teaching Assistant – Scott Middle School

September, 2024 to present / 1 hour/week

- Assisted students with math concepts and problem-solving during club sessions ▪
- Supported the lead instructor in organizing activities and guiding group work

Orchestra Member – Apolo Orchestra (Volunteer Music Ensemble)

2022 – Present | ~50 volunteer hours/year

- Perform music at community venues, including nursing homes, public spaces, and Matt Talbot Kitchen & Outreach. Raised money for food bank and animal shelter
- Promoted community engagement through music