Matthew Lin

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Education

8/2019 – Present	**Plano West Senior High School**	Plano, TX

- Class Rank: 53 / 1382 (3.84%)
- Weighted GPA: 4.54
- SAT: 1580 (Reading 790, Math 790)
- SAT II: Math II 800, World History 780
- AP Courses: total 17, 10 completed with an average of 4.7 score. Courses include Computer Science Principles, Computer Science A, Multivariable Calculus, AP Chemistry and Statistics

8/2017 – 5/2019	**Jasper High School**	Plano, TX

Work Experience

6/2019 – 8/2019	**UT-Dallas NanoExplorers Program at NanoTechnology Institute**	40 hrs/week
	Research Intern	9 wks/year

- Performed research and conducted lab testing mentored by UTD professor
- Explored different synthesis processes of composite materials in order to maximize flexibility and strength
- Simulated crack analysis using Matlab software and wrote code to automatically compile test results and improve efficiency of data analysis
- All works contributed to actual research project funded by state agency

6/2018 – 7/2018	**UT-Dallas STEM Bridge Research Program**	40 hrs/week
	Research Intern	6 wks/year

- Synthesized and tested a bioinspired water repellent to mitigate flood damage
- Results showed that lab samples displayed stronger performance than commercial products

Activities

9th-12th	**School Orchestra**	
	Cellist, Sectional Leader	10 hrs/week
		32 wks/yr

- Cellist in top ranked high school orchestra in the state
- Placed in All-State and All-Region competitions
- Was sectional leader responsible for leading practice sessions for lower-ranked orchestras

10th-12th	**Quizbowl Team**	
	Member (10th), Junior Officer (11th), Secretary (12th)	8 hrs/week
		28 wks/yr

- Coordinated practice times and organized scrimmages and individual study plans
- Designed and programmed a streamlined online practice system with automated question-reading, answer analysis and scorekeeping. It has 30+ consistent users
- Led team in scoring at multiple regional and national tournaments
- Setup annual bake sale and GoFundMe for fundraising

10th	**Greater Dallas Youth Orchestra** Cellist	4 hrs/week 32 wks/year

- Practiced and rehearsed with talented musicians from around the region
- Performed to audiences of almost 2000 at Dallas Meyerson Symphony Center and AT&T Performing Arts Center four times a year

11th – 12th	**Computer Club** Member	3 hrs/week 24 wks/year

- Practiced Java coding and learned algorithms and strategies used in competitive programming
- Participated and placed in regional coding competitions

10th	**Calculus Club** Co-President/Co-Founder	2 hrs/week 22 wks/year

- Established the club and recruited 90% of the calculus students
- Organized meetings to help members better understand calculus concepts and improve problem solving skills

9th – 10th	**Robotics Club** Member	2 hrs/week 24 wks/year

- Developed plans and schematics for robots
- Competed in regional FIRST Tech Challenge competitions and won Best Design award at fall qualifier

11th -12th	**Collin County Teen Court** Juror	3 hrs/week 3 wks/year

- Served as a member of the jury for juvenile offenses to issue community service sentences to defendants

9th – 10th	**Math Club** Member	1 hr/week 16 wks/year

- Worked on advanced math questions
- Placed in competitions hosted by Mathematical Association of America, Purple Comet, and National Society of Professional Surveyors

10th – 11th	**Storehouse of Collin County** Volunteer	3 hrs/week 1 wks/year

- Packed food into grocery bags and organized food pantry
- Made Christmas food packages for underprivileged families

10th – 12th	**National Honor Society** Member	1 hr/week 4 wks/year

- Participated in schoolwide activities and performed volunteer service for local community and charities

11th – 12th	**Words to Heart** Volunteer	1 hrs/week 15 wks/year

- Wrote letters to local civil servants thanking them for the work they do for the community

9th – 11th	**Sunrise Senior Living Center** Volunteer	20 hrs/week 1 wks/year

- Performed the cello with other musicians to entertain the senior residents
- Chatted with the residents and played games with them

10th – 11th	**Live Green in Plano** Volunteer	3 hrs/week 2 wks/year

- Picked up trash and litters in city park, and repainted the playground

12th	**Charity Quizbowl Tournament**	8 hrs/week
	Co-Director/Host	3 wks/year

- Co-host the upcoming Quizbowl tournament as a charity event for Plano ISD and project to donate $1000 to a nonprofit outreach program

12th	**Noteworthy PTX Online Performance**	3 hrs/week
	Cellist	5 wks/year

- Recorded and filmed various uplifting pieces of cello repertoire to uplift people's spirits during pandemic

10th – 11th	**YMCA Turkey Trot Marathon**	6 hrs/week
	Volunteer	1 wk/year

- Worked at the registration desk, handed out name cards and shirts, and directed car traffic away from the track

11th	**Wharton Global High School Investment Competition**	3 hrs/week
	Member	11 wks/year

- Worked with team members to develop long-term investment strategies for prospective client
- Competed with over 350 other teams and used Wharton Online Trading and Investment Simulator to analyze industry trends in real time

Honors & Awards

10th – 12th — **Quizbowl National Qualifier**
- Qualified for High School National Championship tournament, rank top 2% nationwide
- Multiple top 5 finishes in regional tournaments

12th — **National Merit Semi-finalist**
- PSAT score (1500) placed in the top 1% of high school students in the nation

10th – 11th — **All-State and All-Region Orchestra**
- Selected as 6th chair cellist in 2019 All-State Philharmonic ensemble.
- Selected as cellist in All-Region orchestra (2015, 2016, 2018 and 2019)

11th — **USA Computing Olympiad Sliver division**

12th — **National AP Scholar**
- Received an average score of 4.7 on all (10) AP Exams taken

12th — **Wildcat Programming Invitational 1st Place**
- Top place in scholastic programming competition

9th – 12th — **UIL Sweepstakes**
- School orchestra consistently received perfect scores on state examinations

9th – 11th — **Texas Music Education Agency Honor Orchestra Competition**
- School orchestra ranked first in Junior High division, 9th in High School String division in Texas

10th — **STEM Bridge Program 1st place**
- Research team won 1st place in summer program final judging

12th — **Google Code Jam**
- Qualified for Round 1A of the competition

Skills & Talents

Technical Skills
- Proficiency in Java, Javascript and HTML
- Experience using Matlab, Autodesk, Solidworks, GOM Correlate
- Experience building computer desktops and handling hardware

Language
- Fluent in English and Mandarin