

# Minhyuk (Raphael) Jang

Irvine, CA

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## EDUCATION

<b>Crean Lutheran High School (CLHS)</b> Irvine, CA	Expected Graduation May 2025
<b>Harvard University</b> Cambridge, MA	Biochemistry Online - Harvard Medical School (HMX) June - Aug 2024
<b>University of California, San Diego</b> San Diego, CA	Analytical Chemistry June - Aug 2024
<b>Irvine Valley College</b> Irvine, CA	Chinese II Jan - May 2024
	Chinese I May- Aug 2023
<b>Kyunggi High School</b> Seoul, Korea	Mar- July 2022
<b>Sinsa Middle School</b> Seoul, Korea	Aug 2021- Feb 2022

### Coursera Certificates

- (In progress) Fundamentals of Rehearsing Music Ensembles, The University of North Carolina at Chapel Hill
- (In progress) Health Impacts of Chemicals in Consumer Products, University of Michigan
- Intro to Programming with MATLAB, Vanderbilt University
- An Intuitive Introduction to Probability, University of Zurich
- Intro to Generative AI Learning Path, Google Cloud

## RESEARCH/PROJECT

<b>“Evolved to Modern Martial Art, Taekwondo”</b> - Self-guided research paper	2024
Conducted a literature review and composed a research paper on the topic: "Evolved to Modern Martial Art: How Taekwondo Successfully Captures Diverse Groups Across Age and Culture."	
<b>Healthkick 2024 Fundraiser for Children’s Hospital of Orange County (CHOC)</b>	2024
Organized the Healthkick fundraiser for CHOC, raising \$15,000. Contributed by securing sponsors, enhancing event engagement, and managing reception on the event day.	
<b>Patent – Application Number US 63/661,094</b>	Fall 2024
Invention: Advanced medical disposal device. Utilizing artificial intelligence (AI) and advanced imaging technologies, the system with a designed box identifies, sorts, and manages expired or unused medications.	
<b>Pharmacy Summer Research Program for High School Students</b> - Chapman University, Orange, CA	Summer 2024
Summer research program provided hands-on experience in the pharmacy arena, with unique exposure to research methods, lab equipment, and current technology for pharmaceutical scientists. Created research presentation addressing the question “How do pharmacist interventions aid in medication safety during transitions of care?” with teammates.	
<b>Orange County Science and Engineering Fair (OCSEF)</b>	Mar 2024
Competed in a scientific research fair. Created a research presentation regarding my personal research “Curing Humans but Injuring the Environment”	
<b>“Curing Humans but Injuring the Environment”</b> - Self-guided research paper	Feb 2024
Compiled research to evaluate the environmental impact of the disposal of unused and expired medicines. Research showed that improper disposal of pharmaceutical products is unsafe for the environment.	
<b>Young Scientists Journal (YSJ) Poster Competition</b>	June 2023
Competed in the YSJ Poster competition. Created a research poster regarding “Identifying Changes in Brain Activity Caused by Motor Imagery Exercise Through EEG” with teammates.	
<b>UCSD Research Experience For High School Students (REHS)</b> San Diego, CA	Summer 2023
With the help of professors in San Diego Supercomputer Center (SDSC), gained experience and learned the process of research. Created a research presentation addressing a specific topic: Common Epigenetic Mechanism of SZ and ASD.	

## MUSIC

<b>CLHS Healing Sounds of Music (HSOM) Club</b> - Irvine, CA <b>Music Director, Conductor, Composer, Flutist</b>	Aug 2023 - Present
Founded the HSOM Club Orchestra. Organized and coordinated (community service) musical performances. As music director, performed a variety of tasks such as arranging music, preparing scores, programming performances (choosing repertoires), recruiting musicians, rehearsing, and conducting the orchestra. Also participated in chamber music as a flutist.	
<b>Crean Lutheran High School Symphony Orchestra</b> - Irvine, CA <b>Principal Flute</b>	Aug 2023 - Present
<b>Crean Lutheran High School Concert Band</b> - Irvine, CA <b>Flute (Guest Musician)</b>	Aug 2023 - Present
<b>Summer Chamber Music Festival - Concordia University Irvine</b> - Irvine, CA <b>Principal Flute, Flutist</b>	June 2024

## SPECIAL PERFORMANCES

- Pep Band at Crean Lutheran High School- Irvine, CA Conductor** October 2024  
Got the honor to conduct the National Anthem of the United States of America in the Epsilon League opener. Led pep band in the football game against Foothill Knights.
- Spring Concert "Magical Music" Crean Lutheran High School Instrumental Music - Irvine, CA Conductor, Flute** April 2024  
Rehearsed and Conducted the premiere of "A Bird in the Night Sky", a composition by a CLHS student, with the CLHS Symphony Orchestra & String Orchestra. Also played variety of music as a guest flutist for Concert Band, and principal flutist of Symphony Orchestra. These pieces were recorded at CLHS Borland Music Center and are included in the 2024 CLHS Music Department CD Album "Magical Music."
- HSOM Club Christmas Performance at Irvine Marriott Hotel - Irvine, CA Conductor** Feb 2024  
Received an invite to play. Rehearsed the orchestra and conducted the performance which included: Carmen Prelude (Bizet), an Orchestral arrangement of Beethoven's Piano Sonata No. 8 Mvt. 2 (arr. by myself), Shostakovich Waltz No. 2 (arr. by myself).
- HSOM Club Christmas Performance at Lakeview Senior Center - Irvine, CA Conductor, Flutist** Dec 2023  
Programmed a Christmas performance, repertoire ranging from solos, duets, quartets, and orchestral, at Lakeview senior center. Played Mozart's Flute Quartet in D (mvt. 1) as a flutist. For orchestra, an arranged version of Leroy Anderson's "A Christmas Festival" (arr. by myself) was rehearsed and performed under the lead of my baton.
- Boston Instrumental Festival at Boston Symphony Hall - Boston, MA Flute** Mar 2023  
Performed the world premiere of "The Last Battle" by Dr. Elliott Bark. Also performed Dvorak, *Symphony No. 9 in E Minor*, "From the New World" mvt. 4.
- Spring Concert "America and Beyond" Crean Lutheran High School Instrumental Music - Irvine, CA Flute/Piccolo (solo)** Apr 2023  
On top of other pieces performing as a flutist, was featured as a Piccolo soloist and performed "The Stars and Stripes Forever" by John Philip Sousa. This piece was recorded in the CLHS Borland Music Center. This piece is included in the 2023 CLHS Music Department CD Album "America and Beyond."

## AWARDS/HONORS

- (Accepted) 2025 CBDA All-State Golden State Honor Band 2024
- Certificate of Recognition - Student Instructor of the Year, Master Lee's Talium Taekwondo 2024
- Certificate of Appreciation - for volunteer service, Master Lee's Talium Taekwondo 2024
- Pelican International Music Competition: Open Category of Flute- Solo Age 18 "2nd place" 2024
- Charleston International Music Competition - 2024 Summer Music Competition "First Prize Winner" 2024
- AP Scholar with Distinction Award - College Board 2024
- Certificate of Appreciation - for volunteer service, Healthbridge Children's Hospital & Sunmar Nursing Center 2024
- KSEA - National Mathematics & Science Competition (NMSC) - Second Place Math Award 2024
- Virtuoso Award 2024
- Orange County Artist of the Year 2024 - Nominee - Instrumental Music 2024
- 2024 Selected Competitor for ACS Chemistry Olympiad - Irvine Valley College, Irvine, CA 2024
- 69th OCSEF Special Award (California Water Environment Association) / Stockholm Junior Water Prize Regional Award 2023
- Young Scientists Journal Poster Competition Finalist 2023
- ATU National Taekwondo Championship - Gold Medal Winner (Poomsae form) 2023
- John Philip Sousa Band Award 2023
- Concerto Competition (2nd place) - 1st CLHS Concerto Competition 2023
- California Invitational Taekwondo Championship 3rd place (Poomsae form) 2023
- Crean Lutheran High School - Distinguished Scholar 4.5+ GPA 2022, 2023, 2024
- Balchagi (Kicking) Competition - Medalist 2018
- The 2018 Kukkiwon Dan Promotion Excellence Award (Seoul Taekwondo Association) 2018

## VOLUNTEER EXPERIENCES

- B Team - Medication Disposal Project Team Leader** (<https://www.bteamup.org/>) June 2024 - Present
- Taekwondo - Instructor Volunteer, Master Lee's Talium Irvine, CA** Aug 2022 - Present
- Private Math Tutor for Student via "Interns 4-Good" Non-Profit Organization Irvine, CA - online** July 2023 - Present
- School After School math tutoring center volunteer Irvine, CA - Crean Lutheran High School** Sept 2022 - May 2023
- Sun Mar Nursing Center Orange, CA - Volunteer** Nov 2022 - Present
- Engaged in hospital decorating volunteer, "Art Therapy" Sessions (AI art therapy), and Mother's Day gift preparation event
- HealthBridge Orange Pediatric Hospital Orange, CA - Volunteer** Nov 2022 - Present
- Engaged in hospital decorating volunteer, "Music Therapy" (played music for pediatric patients), and Book Reading volunteer (read picture books for pediatric patients and observed changes in vital signals as reading books to the patients)