

# Qianle (Bill) Chen

qianlechen4324@gmail.com | [HarmonyWithNature.org](https://www.harmonywithnature.org) | [LinkedIn](#)

## EDUCATION

### Arnold O. Beckman High School

- **GPA:** Unweighted 3.97/4.00 & Weighted 4.67/4.00

**Tustin, CA**

Aug 2022 - Present

### Irvine Valley College, Dual Enrollment

- **GPA:** 4.00/4.00

**Irvine, CA**

Jun 2023 - Present

## EXTRACURRICULAR ACTIVITIES

### Harmony with Nature Non-Profit 501(c)(3)

**Orange County, CA**

*Founder and President*

Aug 2022 – Present

- Established an environmental stewardship club promoting sustainability on campus and in the Orange County.
- Organized educational workshops and clean-up activities, involving 15+ board members; 250+ participants.

### California State Summer School for Mathematics and Science

**Los Angeles, CA**

*Research Summer Program*

July 2025 – Aug 2025

- Led a first-author poster project titled *Satellite Measurements of Evapotranspiration Predict Plant Water Stress*.

### Certified Scuba Diver for Ocean Conservation

**Irvine, CA**

*Recreational Volunteer Scuba Diver*

Mar 2022 – Present

- PADI-certified Rescue and Dive Against Debris diver dedicated to marine conservation through hands-on underwater cleanup and data reporting initiatives. Partnered with environmental organizations to conduct targeted dives that remove debris, mitigate pollution, and contribute critical findings to the PADI global database. Additionally certified in First Aid and CPR by the Red Cross, ensuring safety leadership in all diving operations.

### Wind Ensemble & Band Organization - Harmony Sounds

**Tustin, CA**

*First Chair, Principle, and Section Leader*

Mar 2022 – Present

- Joined prestigious Pacific Symphony to perform at Carnegie Hall and Renée and Henry Segerstrom Concert Hall.
- Represented the TUSD honor band at major school and community events, showcasing 8+ years of dedication and expertise in playing the Euphonium and Tuba.

### Narrak E-Bikes LLC

**Chino Hill, CA**

*Environmental Research Intern*

Jun 2022 – Aug 2022

- Conducted research on sustainable recycling methods and eco-friendly packaging solutions to reduce waste by 30% and improve the environmental impact of e-bike production.
- Developed a patent focusing on innovative packaging designs that incorporated biodegradable and recyclable materials, enhancing the company's sustainability practices and aligning with green manufacturing standards.

## RESEARCH LAB EXPERIENCE

### Joint Institute for Regional Earth System Science and Engineering @ UCLA

**Los Angeles, CA**

*Research Assistant and Project Coordinator - Prof. Joshua B. Fisher*

Aug 2025 – Present

- Analyzed thermal satellite imagery to study wildfire progression and urban heat patterns. Developed GIS visualizations and thermal analytics; findings featured in NASA Caltech Jet Propulsion Lab's ECOSTRESS gallery.
- Coordinated a \$1M research project with the Orange County Fire Department to develop an AI-based decision-support model for wildfire response, serving as the primary liaison to translate operational needs into research goals and contributing to the design of algorithms for resource allocation and multi-incident decision-making.

### Languages and Transcultural Studies @ UCLA

**Los Angeles, CA**

*Lab Assistant and Coordinator - Prof. Nina Bjekovic*

Aug 2020 – Present

- Received training under professor's supervision, developing expertise in language program outreach and student engagement. Organized multilingual education initiatives, including language fairs and information sessions.
- Served as the primary liaison between UCLA's language programs and 30+ high schools in Southern California, managing outreach efforts for the German, French, Chinese, and Spanish language departments. Facilitated access for over 300 students to linguistic and cultural learning opportunities.

## SELECTED PROJECTS

### Air Quality Sensor Development Project

- Engineered a continuous environmental monitoring sensor that leverages BME280, LTR-559, and MICS6814 sensor technology and Python-based analytics for comprehensive, real-time pollutant tracking.
- Developed AtmoFlow, a cross-platform mobile app for Android and iOS that tracks live air quality data, utilizing user-centered design principles to ensure accessibility and a seamless user experience. Download available by invitation.

### Chen, Qianle. *The Little Tree That Could*.

- Wrote and self-published an illustrated book on urban reforestation and environmental stewardship, categorized under Forest & Tree Books and Recycling & Green Living Books.
- Organized a book launch with 50+ attendees, donating all proceeds to One Tree Planted NPO, supporting global reforestation efforts and funding the planting of over 500 trees in deforested and urban areas worldwide.