YUEYING GRACE YIN

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EXPERIENCE

GAIA Laboratory Jan 2026 - Present
Undergraduate Research Assistant

· Helped develop procedure for and currently pursuing project establishing nitrogen isotope proxies in legumes to provide a reference for further analysis on nitrogen fixation and uptake in various plants. Tasks include indidual research and lab work, collecting & processing samples, data analysis, and operation of IRMS machine. Additionally contributed to preparing IRMS machine standards for various isotope geochemistry projects.

HANA Center 2024 - 2025
Outreach Volunteer, Surveyor for Immigrant Rights Non-profit

· Served as election outreach volunteer & surveyor contributing to phonebanking surveys of pan-immigrant communities to assess attitudes towards economic and immigration-related issues.

· Tasks included writing, distributing educational pamphlets about public policy across Chinatown Chicago, and helping advocate for effective adoption of TEAACH Act in Chicagoland schools, removal of differentiated driver's licenses, etc.

EDUCATION

Duke University Aug 2025 - Present
Pursuing Double Biomedical Engineering Major & Chemistry Major with Concentration in Environmental Chemistry - current GPA 3.962

Coursework in Earth Chemistry, Organic Chemistry, Environmental Science *(Via AP)*, Molecular Biology, Differential Equations, Multivariable Calculus, Algorithms and Data Structures, Solid Mechanics

Stevenson High School 2021 - 2025
GPA 4.77 W, 3.98 / 4.00 UW

PROJECTS

Right Whale Acoustic Monitor Device Fall 2025
Designer

· Worked with group to develop low-cost pressure-resilient device for recording Right Whale communications underwater for client Prof. Martin Brooke

· Final project was brought to Marine Lab for live testing

Search & Rescue UAV 2023 - 2024
Developer, Operator

· Member of student-led engineering team centered around designing and building a fully automated, original drone design capable of search-and-rescue, payload functions

· Worked with various aeronautics programs, programmed image recognition, designed/retrofitted hardware components

· Won 2nd place nationally in UAS4STEM competition

ACHIEVEMENTS

Duke SMIF Undergraduate User Program Award Fall 2026
"Identifying Intraindividual Variation in Nitrogen Isotope Proxies across Legume Species to Study Development and Expression of Nitrogen Fixation", $2000 awarded

Duke Dean's List w/ Distinction Spring 2026

Research Essay on Climate-Adaptive Construction in St. Lucia Spring 2025
TEAMS Engineering HS Competition: 1st in State

SELECTED SKILLS

Programming Languages	Python, Java, MATLAB, LaTeX
Laboratory	IRMS, statistical analysis, basic chemistry & molecular biology laboratory techniques
Other	Mission Planner GCS, soldering, circuit design, data entry