

William C. Choi-Kim

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RESEARCH EXPERIENCE

UT Health / University of Indiana

Jan. 2024 – Present

Research Intern

Hybrid

- **Sole research intern** working on Conjunctive Bayesian Networks (CBNs) under **Dr. Rzgar Hosseini**
 - Developed a R package (CBN2Path) to implement CT-CBN, H-CBN, and B-CBN in the language
 - First author research manuscript published in F1000 (<https://doi.org/10.12688/f1000research.168810.1>)
 - Used R's C interface and package development pipeline

Baylor College of Medicine

Jan 2025 - Present

Research intern

Remote

- Working with research data in the R programming language to do statistical analysis on nutritional and behavioural science

Wolfram Research

Aug. 2024 – Present

Student Ambassador

Remote

- Publish **monthly research essays** on the Wolfram Community platform
 - **Five Staff Picks** as a Student Ambassador
 - Invited to speak at the Wolfram Technology Conference 2026

School of Medicine Pathways Program at Johns Hopkins

2023 – 2024

Research Intern

Hybrid

- Completed a summer internship in oncology research at Johns Hopkins.
 - Completed a research project for the Sidney Kimmel 31st Trainee Day

LEADERSHIP EXPERIENCE

Hwalgi

May. 2024 – Present

Founder

- Founded and run an international nonprofit that provides a platform for student essay writers to **share their opinions on political and social justice** with the world
 - Essays published from **the Philippines, Indonesia, India, the United States, and other nations**

Empty Streets

Sep. 2024 – Present

Chief Technology Officer

- Built and maintain a website for **the world's largest youth-led anti-human-trafficking organization**

Crafts and Laughs

Jul. 2024 – Present

Co-Founder and Chief Technology Officer

- Built and maintain a website for a nonprofit creating toys for children in hospitals

Competitive Math Club

2023 - Present

Founder and President

- Founded and lead a competitive math club that participates in the AMC and AIME competitions yearly for the first time at the school, grew to over a dozen competition members

Computer Science Club

2025 - Present

President and Competitive Team Captain

- Planned, presented, and ran meetings for general members of large Computer Science Club (~30 members)
- Led and competed with varsity competitive programming team

National Honor Society

2025 - Present

Internal Vice President

- Managed volunteer registration, website, internal communications, and tracking hours for NHS (200+ members)

Boy Scouts

2023 - 2024

Senior Patrol Leader

- Planned, organized, and led meetings, campouts, recruiting events, and leadership meetings for Troop 901 (~30 members)

VOLUNTEERING

Reach Unlimited <i>Weekly</i> <ul style="list-style-type: none">Work with developmentally disabled group-home members weeklyHelp with setting up special events and festivals	2023 - Present
Cy-Fair Helping Hands Community Garden <i>Weekly</i> <ul style="list-style-type: none">Maintain community garden for disadvantaged communitiesCompleted Boy Scouts Eagle Project by building a concrete soil bin out of brick and mortar	2024 – Present
Boy Scouts <i>Service Projects</i> <ul style="list-style-type: none">Led and participated in Boy Scout service projectsOrganized and fundraised capstone project, led 10 scouts	2019 – 2024
National Honor Society <i>School Club</i> <ul style="list-style-type: none">Completed service hours as a member and later officer of Cy-Fair High School National Honor Society	2024 - Present
Science National Honor Society <i>School Club</i> <ul style="list-style-type: none">Completed service hours as a member of Cy-Fair High School Science National Honor Society	2024 - Present

SKILLS

- Computational Research (Computational Biology) - see *Research Experience*
- Programming (<https://github.com/rockwillck>)
 - R (intermediate)
 - JavaScript (advanced)
 - WolframLanguage (advanced)
 - Python (intermediate)
- Critical Essay Writing

WORK EXPERIENCE

Tutoring <ul style="list-style-type: none">Tutored students in math classes, SAT (English and Math), and AP exam prep	2024 - Present
Teaching Assistant at Wolfram Summer Research Program <ul style="list-style-type: none">Helped summer program students with computational research at WSRP’25	Summer 2025
Mentor at Wolfram Emerging Leaders Program <ul style="list-style-type: none">Working as a mentor at the Wolfram Emerging Leaders Program, guiding students through a yearlong research project	2025 - 2026

EDUCATION

Cy-Fair High School <i>Expected Graduation: 2026</i> <ul style="list-style-type: none">Class Rank: 1/774SAT: 1590/1600PSAT: 1520/1520AP: Biology (5), Calculus BC (5), English Language (5), Physics C Mechanics (5), Physics C E&M (5), United States History (5), Computer Science A (5), Physics 1 (5), Precalculus (5), Spanish Language and Culture (5), Statistics (5), World History: Modern (5)<ul style="list-style-type: none">Currently taking: English Literature, Chemistry, Psychology, U.S. Government, Macroeconomics	2022 - 2026 <i>Cypress, TX</i>
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AWARDS (full list available at: <https://www.williamck.com>)

National Awards <ul style="list-style-type: none">Scholastic National Gold Medal for Critical Essay [2022]AIME Qualification [2022, 2023, 2024, 2025]AMC 10 Distinction Award [2022, 2023, 2024]Eagle Scout [2024]
State Awards <ul style="list-style-type: none">UIL Ready Writing State 4th Place [2025]
Regional Awards <ul style="list-style-type: none">UIL Ready Writing Regional Champion [2024, 2025]Scholastic Regional Gold Key for Critical Essay [2022, 2023, 2024, 2025]Scholastic Regional Gold Key for Short Story [2022, 2023, 2025]HP Codewars 5th Place [2025]