

# William C. Choi-Kim

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## RESEARCH EXPERIENCE

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### 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 regarding obesity

### 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

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### 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 (~48 members)

VOLUNTEERING

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

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

EDUCATION

<b>Cy-Fair High School</b> <i>Expected Graduation: 2026</i> <ul style="list-style-type: none"><li>Class Rank: 1/774</li><li>SAT: 1590/1600</li><li>PSAT: 1520/1520</li><li>AP: Biology (5), Calculus BC (5), English Language (5), Physics C Mechanics (5), Physics C E&amp;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"><li>Currently taking: English Literature, Chemistry, Psychology, U.S. Government, Macroeconomics</li></ul></li></ul>	2022 - 2026 <i>Cypress, TX</i>
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AWARDS (full list available at: <https://www.williamck.com>)

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