

# JULIA DING

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## Education

- Columbia University, B.S. Computer Science, C.P. Davis Scholar** 2023 – 2027  
Involvement: SWE Mentorship Committee, Application Development Initiative Devfest Committee, WiCS Event Coordinator, IEEE Representative, RTC, NCWIT  
Coursework: Data Structures, Advanced Programming, Discrete Mathematics, Multivariable Calculus
- Liberal Arts and Science Academy, Higher Honors** 2019 – 2023  
Coursework: Discrete Mathematics, Linear Algebra  
Dual Credit with Austin Community College: Web Programming, Web Design, UNIX Operating Systems

## Skills

C++, Java, Python (pandas, NumPy), React, Next, JavaScript, HTML/CSS, PHP, Swift, Git, Microsoft Suite, Excel, Google Suite

## Professional Experience

- Mathworks at Texas State University, Counselor & Research Coordinator** Jun 2023 – Jul 2023  
• Led daily 4h study groups and problem sessions over contest math & Number Theory proofs  
• Organized research symposium and provided feedback on returning student research projects
- Fiveable, Community Intern & Content Creator** May 2021 – Oct 2021  
• Organized and directed first summer makeathon with ~130 attendees, 25+ projects, and ~10 live events  
• Developed open source site ([open.fiveable.me](https://open.fiveable.me)) to showcase member projects  
• Led 100+ volunteers to organize events to promote community engagement for ~23000 members
- MTY Academy, Teaching Assistant** Sep 2020 – May 2023  
• Ran bimonthly lab sessions and taught material to Algebra students (class of 55)

## Organizations

- Hack Club, LASA Club Founder & President** Dec 2020 – May 2023  
• Led leadership team in decision-making, hosted weekly interactive "hacking" workshops  
• Developed and maintained website ([lasa.hackclub.com](https://lasa.hackclub.com)), grew club to 50+ members through outreach  
• Selected to attend Hacker Zephyr (2021) and Assemble Hackathon (2022), all expenses paid
- LASA Women in Computer Science+ Club, Chair** Aug 2019 – May 2023  
• Hosted monthly presentations for Austin's largest high school community of 40+ women/non-binary students  
• Invited industry guest speakers for special talks with 80+ attendance
- Superposition, Director of Technology & Hackathon Organizer** Dec 2020 – May 2022  
• Organized Superposition VI women/non-binary hackathon (280 attendees, \$4000+ in prizes)  
• Conducted outreach to sponsors and website development, judged projects
- Define Include, Instructor & Curriculum Creator** Jul 2021 – Sep 2021  
• Bridging the gender gap in computer science through instructing ~100 students worldwide  
• Pitched & created content for web development course

## Awards

- Non-Trivial Fellowship** 2023  
• Engaged with 8-week curriculum to build a project addressing the most pressing global issues  
• 1 of 100 fellows selected from 20,000+ global applicants
- Texas American Regions Math League (ARML) Team** 2021  
Selected to be on the team as top 45 in the state in competition math, 1 of 6 female students on team
- NCWIT Aspirations in Computing, National Honorable Mention & 3x Austin Winner** 2021  
• 360 of 3700+ women nationwide recognized on the basis of technology/computing accomplishments  
• Received for demonstrated passion/leadership in computing

## Projects

- Research with Dr. Rodion Podorozhny at Texas State University** 2022  
• Performed a comparative analysis on verification methods of distributed AI systems  
• Authored & published paper (<https://arxiv.org/abs/2302.04389>), presented findings at symposium
- Oratio** 2021  
• Heightened speech to text app that uses semantic "visual tokens", elevating visual education and language learning  
• Awarded First Place (Advanced) at hackNEHS