

# Annie Zhu

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## EDUCATION

### ***Bellaire High School***

GPA 5.0/5.0 SAT 1580/1600 • PSAT 1520/1520 • SAT Math 800/800

### **LEADERSHIP**

Girls Who Code (President) • Math Club (Treasurer) • Student Council (Class Representative) • National Honor Society (Chairperson) • Coding Club (Marketing Director) • Chinese Honor Society (Treasurer)

## HONORS & AWARDS

### **VOLUNTEERING**

***President's Environmental Youth Award:*** [Recognized 13 winners out of 76 applicants]

2020 • National Winner

***Daily Point of Light Award:*** [after winning, interviewed and featured in an article on their website]

2020 • National winner for work with Fresh Hub

***Future Problem Solving Community Problem Solving:*** [Includes participants from 37 states and 14 countries]

2019 & 2020 • 1st Place in Human Service • International Competition • Texas State Grand Champion

***Bellaire PTO Student Award:***

05/2020 and 2019 • \$500 Scholarship • Bellaire High School PTO

### **COMPUTER SCIENCE**

***USA Computing Olympiad:*** 2020 • Gold • USA Computing Olympiad

***National Center for Women & Information Technology Award for Aspirations in Computing:***

2020 • National Honorable Mention [About 8% applicants receive this award]

2019 and 2020 • Texas Winner • Houston Affiliate

***Congressional App Challenge:*** 2019 • TX-07 Winner • U.S. House of Representatives

***UIL Computer Science A+ Competition:***

2019 • 1<sup>st</sup> Place • Seven Lakes Classic Kickoff- 2018 • 2<sup>nd</sup> Place • Clements HS Programming Competition

***Together with Tech Conference Code.It Winner:*** [Involved live presentation of app to judges]

2019 • 2nd Place & \$300 Award • Houston Independent School District

### **WRITING**

***Scholastic Writing Awards:***

2019 • 1 National Silver Medal • Writing Category: Journalism

2019 – 2020 • 1 Regional Gold Key, 3 HMs • Writing Categories: Critical Essay, Journalism, Short Story

***Dedman Essay Competition:*** 2020 • 4<sup>th</sup> place [Directed by Dedman Distinguished Scholars Program]

### **VISUAL ART**

***Scholastic Art Awards:***

2019 • American Visions Nominee & Scholarship • Art Category: Painting

2017–20 • 5 Regional Gold Keys, 1 Silver Key, 1 HM • Categories: Painting, Mixed Media, Future New

***Congressional Art Competition:*** 2019 • 3<sup>rd</sup> Place • U.S. House of Representatives

***Houston Young Artist' Concert Visual Arts Contest:*** 2018 • 1<sup>st</sup> Place • Houston Young Artists' Concert

### **DANCE**

2019 • 2<sup>nd</sup> Place in Classic Senior • StarQuest Dance Competition World Final

2019 • 1<sup>st</sup> Place in Advanced Senior • Showstopper Dance Competition Houston

2018 • 1<sup>st</sup> Place in Competitive Senior • Platinum Dance Competition Houston

## INITIATIVES

### **Fresh Hub – Co-founder / Co-President**

April 2018 – Present

<https://www.freshhubhouston.com/>

[We combat food iniquity by rescuing unsold food and distributing these items to communities in need. Additionally, healthy lifestyles are promoted by collaboration with wrap around services and use of apps.]

- Led 15 food rescue and food redistribution events • 9000 lbs Food Saved • 1125 whe Served
- Performed as the second driver for food delivery to charities • Distributing groceries to senior residents
- Coded and promoted the Fresh Hub App to reach 100 users
- Recruited 100 volunteers from 3 Houston ISD Schools
- Served as the 2019 Housing and Community Development Department (HCDD) Fair Housing Ambassador and collected 35 completed surveys
- Coordinating Press Release with City of Houston Latest News and Building One Houston Podcast

### **Readiness Across Mathematics - Founder / President**

April 2019 – Present

<https://www.ramhouston.net/>

[Wholistic approach to equipping disadvantaged elementary and middle school students with the learning habits and access to resources for long term benefits.]

- Developing and disseminating worksheets for remote learning • Creating and updating website
- Established partnerships with Texas State Mathworks to gain insight on teaching techniques, HISD Parent University to inform more families about our program, and T. H. Rogers, Peck E, & Foster E schools to connect with students by passing out our flyers and having teachers recommend our workshops and camps to parents
- Led 1 week-long camp and 9 half-day workshops where 90 students were tutored by 15 high school volunteers
- Acquired \$900 in grants from LISC Go Neighborhoods and CPA Helping Schools programs for purchasing workbooks and donating to schools
- Serving on the Go Neighborhoods OST/South Union Steering Committee (more detail in next section)
- Attended HISD District II Candidate Forum and HISD Board Meeting Hearing of Citizens to advocate for take home elementary school math resources and online services

### **Future Problem Solvers Club – Co-founder/ Co-President/ Coach**

April 2018 – Present

<https://www.bellairefps.com/>

[Unlike other community service organizations, the club champions student driven initiatives and explorations in how actions today affect our future.]

- Recruiting 40 Club Members/ Training 5 Officers/Creating Meeting Agendas and Lesson Plans
- Coaching 5 Global Issues Problem Solving Teams and 4 Community Problem Solving Teams for competition
  - Taught peers valuable problem solving skills by demonstrating examples and challenging them
- Coordinating a workshop on monologues for Scenario Performance with Landing Theater • 30 Participants
- Raising \$755 through the sale of tapioca drinks, coffee, and doughnuts for competition and travel expenses

## EXPERIENCES

### **Go Neighborhoods Steering Committee Member**

October 2019 – Present

[Go Neighborhoods is a multiyear place-based initiative for revitalizing Houston communities funded by Local Initiatives Support Corporation.]

- Learning Landscapes: goal to transform everyday places into fun, engaging learning opportunities through mini installations such as puzzles at bus stops and imprints on sidewalks.
  - garnered the support of locals in OST and South Union including members of the park board and METRO staff (currently in discussion with these members)
  - Over 50 community members have responded to the form I created inquiring about what specific project they would like to see, which is critical in making this project community oriented

- Understand the needs of the community by learning from about the other services, sharing and receiving feedback on my program

***Houston Mayor's Youth Council (MYC) – Council Member***

October 2019 – Present

[The mission is to promote civic engagement by youth; members work year-round to establish a rapport with civic/community leaders.]

- Addressing youth concerns by drafting the Youth Bill of Rights and corresponding with Mayor Turner
- Leading the MLK Homelessness Service Project to create hot bags of essentials like first aid kits and socks used by the local government to incentivize the homeless to visit shelters
- Producing videos of student involvement within the community for the Houston Youth TV channel

***Honors Summer Math Camp - Researcher***

[The Mathworks Honors Summer Math Camp (HSMC) is an intensive multi-summer program for high school students. The average acceptance rate for first-year applicants has been 20%.]

- June – August 2020 • Conducted research on using Poisson Process to model classroom observable data • Studied Abstract Algebra
- June – August 2019 • Conducted research on Dynamic Mode Decomposition • Studied Analysis and Combinatorics
- June – August 2018 • Studied Number Theory and Mathematica • Exposure to college level mathematics

***Girls Who Code Club President***

September 2017 – Present

- Organizing a hackathon (eHack for Charity) where students from various backgrounds collaborated and utilized technology in proposing solutions to real world problems pertaining to disaster relief:
  - Recruiting guest speakers from groups such as ConocoPhillips and high schools across the city to line up 10 inspirational and educational workshops
  - Over 131 participants in submitting a project and over 300 views on our workshops from students from over 3 different countries
- Holding two guest speaker events • cumulatively over 60 attendees who were exposed to what a career in tech looks like as a female and received advice from experts in the field
- Overseeing science and craft booths at STEM nights of 3 schools to promote an interest in STEM among youth
- Speaker at the Rice University School Mathematics Project 2019 Fall Networking Conference

***J&H Dance School Student Committee – Vice President***

March 2019 – Present

- Leading HEB Prelude Performance • Contacting the Society for the Performing Arts & Jones Hall • Recruiting
- Organizing J&H 2019 Showcase • Program Design • Budget & Fee Collection • Poster/T-shirt • Supplies Order
- 2019 C-Dream Award Ceremony • Emcee

***Junior Summer Math Camp - Counselor***

June 2020

[The Residential JSMC is an immersive summer program for middle school students who are excited about doing mathematics.]

- Taught students skills in combinatorics, geometry, and algebra by introducing concepts such as the pigeonhole principle and the principle of inclusion and exclusion
- Promoted collaboration by guiding problem solving on a shared virtual whiteboard
- Organized a camp wide virtual scavenger hunt with the Goosechase app to engage students in team bonding