

# Sahil B. Shah

sahil2699@gmail.com • (832) 782-7923 • sahilbshah.io

## EDUCATION

---

<b>The University of Texas at Austin</b>	Bachelor of Science, Computational Biology Minor: Computer Science, Statistics GPA: 3.62/4.00	May 2021
<b>ETH Zurich</b>	Biology Exchange Program in Zurich, Switzerland	Spring 2020
<b>The University of Texas at San Antonio</b>	Bachelor of Science, Undeclared (Biology Track) GPA: 3.82/4.00	May 2018

## RESEARCH EXPERIENCE

---

<b>Dr. Martin Häusler's Lab</b> – <i>Undergraduate Researcher; ETH Zurich</i>	May 2020 – June 2020
• Undertake evolutionary morphology research that analyzes birth outcomes data to test the validity of the obstetric dilemma hypothesis	
<b>Dr. Nicola Zamboni's Lab</b> – <i>Undergraduate Researcher; ETH Zurich</i>	February 2020 – March 2020
• Engage in metabolomic research to study the effects of glucose reuptake on metabolites in <i>E. coli</i>	
<b>Dr. Robin Gutell's Lab</b> – <i>Undergraduate Researcher; UT Austin</i>	August 2019 – December 2019
• Participate in RNA analysis research to computationally predict RNA secondary structures through covariation analysis	
<b>Dr. Claus O. Wilke's Lab</b> – <i>Undergraduate Researcher; UT Austin</i>	June 2019 – Present
• Develop a simulator to identify de novo viral genomic architectures that replicate target transcript abundance patterns	
<b>Dr. Josh Beckham's Virtual Cures Lab</b> – <i>Undergraduate Researcher, Peer Mentor; UT Austin</i>	January 2019 – Present
• Conduct research in drug discovery for <i>Plasmodium vivax</i> using high throughput virtual screening and genetic engineering techniques	
• Mentor students in the lab and teach them how to conduct various experimental and computational experiments.	

## PROFESSIONAL AND LEADERSHIP ACTIVITIES

---

<b>UTEACH Natural Sciences</b> – Student Teacher	August 2019 – December 2019
• Organize and teach science-based lesson plans to help fifth grade students understand physics concepts	
<b>UT Austin Sanger Learning Center</b> – <i>Learning Assistant</i>	January 2019 – May 2019
• Facilitate discussions and lead groups of 15+ students to master fundamental biochemistry topics	
<b>Organic Chemistry Tutor</b> – <i>Tutor</i>	September 2018 – December 2018
• Give in-person instruction to undergraduate students in organic chemistry to improve course scores by at least a letter grade	
<b>MOVE Texas</b> – <i>Intern</i>	January 2018 – June 2018
• Fundraise for the organization, organize community events, and register citizens to vote to increase voter participation in Texas	
<b>Texas Mission of Mercy</b> – <i>Dental Assistant Volunteer</i>	October 2017 – Present
• Assist dentists with dental procedures to promote oral health in underserved communities throughout Texas	
<b>St. Vinny's Bistro</b> – <i>Volunteer</i>	August 2017 – May 2018
• Coordinate and provide food to the homeless in San Antonio, Texas to better the local community	

## PUBLICATIONS AND CONFERENCES

---

<b>Shah, S. B., Hill, A. M., Wilke, C. O. &amp; Hockenberry, A. J.</b> Generating complex patterns of gene expression without regulatory circuits. <i>bioRxiv</i> 2020.11.25.398248 (2020) doi:10.1101/2020.11.25.398248	November 25, 2020
<b>Gulf Coast Undergraduate Research Symposium, Rice University</b> – Sahil B. Shah Presentation Ranking (1-5): 5 - Excellent	October 31, 2020
<b>Fall Undergraduate Research Symposium, UT Austin</b> – Sahil B. Shah Award: Science Slam Honorable Mention	October 17, 2020

## ACADEMIC AWARDS AND HONORS

---

• UT Austin University Honors	Fall 2019
• Austin Independent School District Scholarship	Fall 2019
• TIDES Research Fellowship	Summer 2019
• UTSA Honor Roll	Spring 2018
• UTSA Dean's List	Fall 2017

## ADDITIONAL INFORMATION

---

**Research Interests:** Cancer Biology, Data analytics, Genomics, Machine learning, Synthetic Biology, Systems Biology  
**Computer Skills:** MS Excel, PowerPoint, Word, Python, R, SQL, Website Development  
**Work Eligibility:** Eligible to work in the U.S. with no restrictions; Visa required if working outside of the U.S.