

# SAAD A. QURESHI

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## EDUCATION

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University of Michigan (Ann Arbor, MI)	Sep 2020 – Present
<ul style="list-style-type: none"><li>B.S. in Biology, Health and Society through the LSA Honors Program</li><li>Relevant Coursework: Organic Chemistry, Microbiology, Statistics</li></ul>	
Western Michigan University Dual Enrollment (Kalamazoo, MI)	Sep 2017 – May 2020
Kalamazoo Area Mathematics & Science Center (KAMSC) (Kalamazoo, MI)	Sep 2016 – Jun 2020
<ul style="list-style-type: none"><li>Completed an advanced curriculum in accelerated mathematics, science, and computer technology offered to select students based on application</li><li>Relevant Coursework: AP Biology, AP Statistics, AP Computer Science</li></ul>	
Portage Central High School (Portage, MI)	Sep 2016 – Jun 2020
<ul style="list-style-type: none"><li>Relevant Coursework: AP Psychology, IB Environmental Science, IB Spanish</li></ul>	

## ACHIEVEMENTS & HONORS

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Best Undergraduate Student Presentation - Honorable Mention (SDB 2022, Vancouver, CA)  
James B. Angell Scholar  
William J. Branstrom Freshman Prize  
1<sup>st</sup> Place International Science & Engineering Fair Finalist (ISEF 2020, Anaheim, CA)  
University of Michigan Regents Merit Scholarship

## EXPERIENCE

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### **Hedgehog Signaling in Intestinal Development and Homeostasis**

*University of Michigan, Ann Arbor, MI* Oct 2021 – Present

- Investigated the role of the vasculature and nerve cells, specifically analyzing the Hedgehog signaling pathway, to understand villus emergence and patterning in the small intestine.

### **The Role of Reactive Oxygen Species (ROS) in Modulating New Tissue Growth**

*Western Michigan University, Kalamazoo, MI* Jun 2021 – Aug 2022

- Examined the impacts of genetic and pharmaceutical regulation of ROS on new tissue growth in planarian blastema regeneration.

### **Group Leader**

*miRcore at the University of Michigan, Ann Arbor, MI* Jun 2021 – Aug 2021

- Instructed high school students biotechnology next-gen sequencing techniques to explore real patient genome data to identify SARS-CoV2 virus infected samples.

### **Loss of Reactive Oxygen Species (ROS) Inhibits Planarian Regeneration**

*KAMSC & Western Michigan University, Kalamazoo, MI* Sep 2019 – Jun 2020

- Explored the effects of ROS inhibitor diphenyleneiodonium chloride (DPI) on blastema formation in planarian regeneration.