

# Jonathan Huynh

✉ jonathan.huynh@icahn.mssm.edu

☎ (713) 447 - 3153

📍 New York, NY

📅 June 13th, 2002

♂ He/Him

🆔 0009-0005-2257-3859

## Awards

**Departmental Honor for Research in Analytical Chemistry**, *Department of Chemistry at Washington University in St Louis*  
May 2024

## Skills

### Computer Programming

Proficient and knowledgeable in Java, Python, PyMOL, WinCoot, RoseTTAFold, AlphaFold, and Chimera

### Clinical Settings

Experience in navigating clinical environment and reading patient charts.

### Research Skills

Extensive experience in basic research and lab protocols as well as data gathering for clinical research.

## Education

**Medical Doctor**, *Icahn School of Medicine at Mount Sinai*  
August 2024 – present | New York

**Bachelor of Arts in Chemistry**, *Washington University in St Louis*  
3.94 GPA, Summa Cum Laude

## Publications

### **Structural basis of membrane machines that traffick and attach heme to cytochromes**

Jonathan Q. Huynh, Ethan P. Lowder, Robert G. Kranz  
*Journal of Biological Chemistry*, November 2023

### **(MS) Structural insights into mechanisms underlying mitochondrial and bacterial cytochrome c synthases**

Pema L. Childs, Ethan P. Lowder, Deanna L. Mendez, Shalon E. Babbitt, Amidala Martiniie, Jonathan Q. Huynh, Robert G. Kranz  
(Accepted with revisions) *Biomolecules*, November 2024

## Professional Experience

### **Undergraduate Researcher**, *Kranz lab*

September 2021 – May 2024

My research was funded by Danforth Seed Grant and D.O.E. grant over summers. I worked under the guidance of Dr. Robert Kranz to perform various wet lab experiments and utilize computational programs to characterize cytochrome c biogenesis. I recruited and trained two underclassmen and managed their experiments and tasks.

### **ABA Therapy Student Implementer**, *Dr. Deirdre Abernathy*

April 2022 – May 2024

I worked with Dr. Deirdre Abernathy to use Applied Behavior Analysis (ABA) programs and therapeutic techniques on neurodivergent patient, CW. Programs were designed to improve breathing control, balance, speech, expressivity, and lifestyle. I communicated frequently with CW's parents, teachers, and pediatrician to provide best care possible

### **Research Associate for Pediatric Emergency Medicine Research Associates' Program**, *Washington University School of Medicine*

September 2022 – December 2022

I attended weekly meetings led by principle investigators to discuss the clinical studies they conduct and their purpose. I would then volunteer in the emergency department of St Louis Children's Hospital to enroll eligible patients into clinical studies.

**Organic Chemistry Teacher Assistant, *Rong Chen***

September 2022 – May 2024

I led small group of 15-20 students in completing weekly packets and provided supplementary help on concepts. I also assisted in grading and proctoring exams.

**Intro to Critical Thinking in Bio Teacher Assistant, *Robert Kranz***

September 2022 – January 2023

I worked with Dr. Robert Kranz in creation of novel course at Washington University in St Louis with goal of providing disadvantaged students with personal guidance and lessons to better prepare them for Principles of Biology I and their future biology careers.

## **Volunteer Experience**

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**Member of EHHOP Research Group**

August 2024 – present

I am able to learn more about the experiences of patients in East Harlem and learn how to get involved in community based research.

**Member of Heart for the Unhoused**

September 2021 – May 2024

I volunteered at health screenings in homeless shelters organized with physicians. I helped in creation of over 500 custom health kits, helped in fundraising efforts through crepe booths and cookie sales to raise over \$900 distributed surveys to gauge needs of St Louis community.

**Volunteer at St Louis Crisis Nursery**

May 2022 – May 2024

I worked with St Louis Crisis Nursery in their mission to support families in need by helping to provide short-term care for their child.