

Ajay K. Mahenthiran

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EDUCATION

North Central High School

August 2017 - May 2021

International Baccalaureate Diploma Program

- GPA: **5.2740**, Class Rank: **1/836** - Valedictorian

Case Western Reserve University Pre-Professional Scholars Program (Combined BS/MD Program)

August 2021 - present

- Junior Year Current Cumulative GPA: **4.000**

EXPERIENCE

Cleveland Clinic Lerner Research Institute - Department of Cardiovascular Medicine

January 2022 - present

Student Researcher (Mentor: Dr. Tang)

- Investigating mechanistic determinants of cardiovascular diseases, specifically understanding mechanisms behind inflammation and metabolic imbalance - current project focused on the role of the novel klotho protein in heart failure
- Laboratory techniques include cell culture, DNA genotyping, enzyme-linked immunosorbent assays, and western blotting

University Hospitals Medical Center - Department of Orthopedic Trauma

May 2022 - present

Student Researcher (Mentor: Dr. Sinkler)

- Project: Retrograde Intramedullary Nailing is an Appropriate Approach to Pathologic Femur Fracture Fixation
- Role involved Extensive Chart Review with use of REDcap and EPIC - Manuscript Submitted to Clinical Orthopedics and Related Research

University Hospitals Medical Center - Patient Transporter

May 2024 - present

- Responsible for safely and efficiently moving patients between various departments and areas within the facility

PUBLICATIONS

“Cardiovascular system and COVID-19: manifestations and therapeutics”

September 2020

- Mahenthiran AK, Mahenthiran AK, Mahenthiran J. Cardiovascular system and COVID-19: manifestations and therapeutics. *Rev Cardiovasc Med.* 2020 Sep 30;21(3):399-409. doi: 10.31083/j.rcm.2020.03.124. PMID: 33070544.

“The effect on the biomechanical stability of inseting Nitinol staples in an olecranon osteotomy”

April 2021

- Mahenthiran A, Kacena-Merrell E, Chen WW, Lim BH, Dineen H. Nitinol Staples for olecranon osteotomy fixation, juxtacortical versus inset, effect on biomechanical stability. *Journal of Hand Surgery Global Online.* 2021 Apr 27;3(4):172-175. doi:10.1016/j.jhsg.2021.03.004.

“Heart Failure: a Punch from the Gut”

February 2024

- Mahenthiran A, Wilcox J, Tang WHW. Heart Failure: a Punch from the Gut. *Curr Heart Fail Rep.* Published online February 1, 2024. doi:10.1007/s11897-024-00648-y.

STUDENT ATHLETE

Case Western Reserve University Varsity Men's Tennis Team

August 2021 - present

Team Accomplishments

- 2022, 2023 ITA Team National Indoor Champions, 2022 NCAA Team Finalists, 2023 University Athletic Association (UAA) Conference Champions - First in school history for respective sport, 2023 NCAA Team Champions - First in school history for any sport, Team currently ranked #3 nationally

Individual Accomplishments

- All-UAA Second Team (2023), ITA Central Region Singles Champion (2023), ITA Scholar-Athlete (2023, 2024), UAA Spring All-Academic Honor (2023, 2024), College Sports Communicators Academic All-American Team (2024), All-American Honors (2024), All-UAA First Team - No.1 Singles (2024), ITA Central Region and National NCAA Division III Most Improved Player (2024), Singles Individual National Ranking: 10 (2024)

LEADERSHIP

Food Recovery Network (FRN)

August 2021 - present

Executive Board - Internal Affairs

- Organized efforts to recover extra food from dining halls after meal time and redistribute it to local community food banks
- In-charge of adherence to campus policies and developing an appropriate risk management plan for travel to the food banks

United Nations International Children's Emergency Fund (UNICEF)

August 2022 - present

Executive Board - Event Coordinator

- Planning events involved with promoting children's rights and expanding their opportunities in disadvantaged communities along with fundraisers to promote organization's goals - volunteering at Euclid Food Pantry and Cleveland Kids Book Bank

Academic Integrity Board

December 2022 - present

Board Member

- Involved with leading forums for open discussion between students and faculty about issues of academic integrity

AWARDS

Undergraduate Research Society - Research Scholars Program

- Recognition for meaningful engagement in academic research as an undergraduate student

Center for Civic Engagement and Learning - Civic Engagement Scholars Program

- Recognition for outstanding commitment to meaningful community service work