

Madaline A. Witort

maw256@case.edu – 630-776-3712 – [linkedin.com/in/madaline-witort](https://www.linkedin.com/in/madaline-witort)

Education

Case Western Reserve University | GPA: 3.9 / 4.0

Expected Graduation: Fall 2024

B.A. in Communication Science and Disorders, Secondary Major in Cognitive Science.

Certificate in Clinical and Translational Research.

Skills | Advanced Excel, RedCap, and Covidence Knowledge, Intermediate “R”, SPSS, and PRAAT Proficiency.

Research & Leadership Experience

Acquired Neurogenic Communication Disorders Lab | Research Assistant

November 2021 - Present

Cleveland, Ohio

- Presenting author at 14th Annual Traumatic Brain Injury Conference and breakout session speaker at Brain Injury Association of Pennsylvania; communicate outcomes of a longitudinal study of 300 patients with pediatric traumatic brain injury.
- Manage 20 research assistants across two campuses in interview onboarding, data collection, quantitative and qualitative statistical analysis utilizing Excel VBA macros, and ATLAS.ti.
- Analyze and score 400 participants' neuro assessment data, utilizing Python; contribute data to a four-year study of pediatric outcomes for returning to school services after traumatic brain injury.
- Conduct literature reviews on the impact of COVID-19 on patient services, and compile results with PI to incorporate into doctoral research and educational outreach material.

PubMed Healthcare Analytics | Mentor

June 2022 - Current

Cleveland, Ohio

- Mentored nine undergraduate researchers on how to conduct concise search protocol, computational modeling, mock IRBs and evidence-based implementation strategies in order to present projects in public health, and biomedical engineering.
- Oversee five high school student poster presentations on delirium management strategies by instructing literature review methodology and collecting clinical data.
- Formulated executive-level recommendations including quality of palliative care, hospital efficiency and the effectiveness of hand sanitization pumps implemented at the University of Iowa's Department of Clinical Anesthesiology.
- Researched screening criteria, paper relevance, and statistical modeling and validity in order to communicate detailed administrative recommendations for caregiver stroke treatment protocol.
- Screened papers using Covidence software as a part of a systematic review team; findings contribute to stroke diagnosis.

Publications and Research

“Managing Student Expectations to Enhance Student Club Commitment”, Biomedical Engineering Society October 2023

“Pediatric Traumatic Brain Injury: The Effects of Anxiety and Depressive Disorders, 14th Annual Brain Injury Conference, Brain Injury Association of Pennsylvania May 2024

“Wearable Technology in Pediatric Cardiac Care: A Scoping Review of Parent Comfort and Acceptance”, BMES October 2024

“Systematic Review and Meta-Analysis Suggests That Race and Ethnicity Are Poorly-Considered in Acute Stroke Blood Biomarker Investigations” International Stroke Conference February 2025

“Large-Scale Systematic Review and Meta-Analysis of Data From Acute Stroke Blood Biomarker Investigations Identifies Need for More Translational Research Methods”, International Stroke Conference February 2025

Campus Involvement

Case Western Reserve University Club MedWish | Treasurer

September 2021 - Present

Cleveland, Ohio

- Presenting author at the Biomedical Engineering Society “Managing Student Expectations To Increase Club Commitment”; findings highlighted a 295% increase in recognized members.
- Organize clinical trials and funding sources for an aptasensor prototype for HPV in low-income communities.
- Manage a \$32,000 budget that covers grant proposals, summer internships, and medical devices donated to local nonprofits.
- Supervise student training center, organize teaching materials, and teach members to fix and test pulse oximeters, electric wheelchairs, and EKG machines in order to re-distribute devices to hospitals in emerging economies across the globe.

National Speech Language Student Hearing Association | DEI Chair

September 2023 - Present

Cleveland, Ohio

- Founded a campus-wide health communication fair to promote the Communication Science and Disorders Department across the College of Arts and Sciences.
- Led DEI journal article discussions in collaboration with graduate students on a monthly basis in order to identify limitations in data, and share findings in a collaborative discussion with fellow researchers.
- Led hands-on classroom activities to educate and model bone-conduction hearing aids.

Case Western Reserve University Yoga Club | Co-President

September 2021 - Present

Cleveland, Ohio

- Instructs bi-weekly free community classes to foster campus wellness and improve student organizations in the graduate and undergraduate student population.
- Devised fundraising initiatives for student yoga teacher training scholarships in order to promote professional development.
- Launches free weekly classes in partnership with Cleveland Yoga Little Italy and the Leadership Academy Wellness Association.

Clinical Experience

Cleveland Clinic | Patient Care Nursing Assistant, Neurology

December 2022- Present

Cleveland, Ohio

- Communicates with over 20 health professionals using Epic interface to advocate for patient care, point-of-care testing, and patient education.

Awards and Accomplishments

Outstanding Student in Cognitive Science (2024) to commend a single student who has carried out meaningful and sophisticated research.

Dr. Dorothy Pijan Student Leadership Award (2021-2022) for outstanding teamwork and campus-wide involvement.

Dean's List (2021-Present) awarded to students with a GPA of 3.8 or higher.

NSSLHA Chapter of the Year (2022-Present) national gold status student chapter.

200-Hour Certified Yoga Teacher (2023).