

Emmanuel W. Fâlé

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EDUCATION

Doctor of Medicine

University of Minnesota – Twin Cities

Expected: May 2025
Minneapolis, MN

Bachelor of Science in Biomedical Engineering (A.B.E.T)

Gannon University

August 2018
Erie, PA

HONORS

Medical School

Harold Vines Scholarship (2021-2025)

Rosen Memorial Fund Scholarship (2021-2025)

Undergraduate

Dean's List, College of Engineering (2017-2018)

Athletic Scholarship (2017-2018)

Zeitler Power Scholarship (2016-2018)

Presidential Scholarship (2013-2016)

Teaching Experience

Gannon University

Teaching Assistant, Engineering Statics

Erie, PA
Sept. 2016. – May 2018

- Graded exams, homework assignments and led coursework tutoring sessions for a class of 20+ students

RESEARCH EXPERIENCE

University of Minnesota, Biomedical Engineering Department

Student Researcher

Minneapolis, MN
03/2022 – Current

- Researching and developing a molecular dynamic simulation of cellular pathways activated through EGFR and Integrin signaling and the effects on cell survival and proliferation
- Model allows for the insertion of therapeutic perturbations and visualization of downstream effects on cell cohort survival and proliferation over time

Stanford University, Cardiovascular Institute

Clinical Fellow

Stanford, CA
06/2022 – Current

- Developing V122I transthyretin cardiac amyloidosis models in vivo and in vitro
- Researching effects of smoking on V122I transthyretin cardiac amyloidosis in vivo and in vitro

Gannon University, Biomedical Engineering Department
Research & Design Student Engineer

Erie, PA
08/2017 – 05/2018

- Developed external pressure sensing device for individuals experiencing lower limb fractures
- Utilized CAD drawing, 3D printing software, and Arduino to build and program the device
- Researched instrumentation validation, ISO, IDE, FDA regulations, and compliances

Gannon University, Mechanical Engineering Department
Mechanical Engineering Research Assistant

Erie, PA
09/2016 – 08/2016

- Led small team in the development of a solar powered cooling system
- Created sealed enclosure which increased internal temperature via space heating device
- Removed and repurposed refrigeration cooling system powered by second-generation solar panels to cool down the internal compartment. Presented at Sigma Xi conference

Sanford Research, Vitiello Lab
Biomedical Research Intern

Sioux Falls, SD
05/2016 – 08/2016

- Cultured ear and lung fibroblast cells for nuclear and cytosolic fractionation of samples to obtain BCA protein assays on transgenic cell cohort
- Transgenic cell cohort produced increased amounts of thioredoxin-1 in response to hyperoxic damage from reactive O₂ species
- Performed statistical analysis of data to find the significance, or lack thereof, of increased thioredoxin-1 levels on Bronchopulmonary dysplasia and hyperoxic damage

VOLUNTEERING EXPERIENCE

Phillips Neighborhood Clinic
Lab Volunteer

Minneapolis, MN
10/2021 – Current

- Perform blood collection via venipuncture and capillary collection, laboratory testing, and processing of specimens
- Record consolidation and reporting
- Communicate directly with patients regarding lab results over the phone and in person

African American Male Forum (AAMF)
General Member

St. Cloud, MN
08/2008 – Current

- Established youth mentor program focused on the intersectionality of education, life experiences, and sports
- A total of 10 Mentors interact with two mentees over breakfast on the 2nd and 4th Saturdays of each month
- Created bi-annual events in collaboration with community practitioners for Juneteenth and Kwanzaa where free health screenings, treatments, and education about concepts of social determinants of health and social reproduction

Next Steps Transitional Nursing Agency Shelter
General Member

St. Cloud, MN
10/2019 – Current

- Created primary Intervention program affecting people who are at risk for cardiac conditions through blood pressure screenings, dietary education, and cardiovascular exercise program

Student National Medical Association
Diversity Equity and Inclusion Ambassador

Minneapolis, MN
10/2021 – Current

- Advise prospective medical students once a month on navigating the medical school pre and post-interview processes.
- Discuss university resources present for medical students to facilitate academic and professional success

Black Doctors Association
Founder & Co-President

Minneapolis, MN
01/2022 – Current

- Partner with community organizations to develop mentorship programs for youth underrepresented in post-secondary education and STEM
- Partner with community organizations to establish outreach opportunities for education on different career paths, health topics, and social determinants of health
- Establish volunteer opportunities for members of professional schools to further understanding of disparities in post-secondary education and STEM and how to develop and execute measures that work towards decreasing the gap

MD Link
Co-President

Minneapolis, MN
01/2022 - Current

- Partner with community organizations to develop mentorship programs for youth experiencing different insecurities and professional students
- Partner with community organizations to establish outreach opportunities for education on different health topics and social determinants of health
- Developed trauma-informed care team, which developed a curriculum to further educate medical students on the importance of a trauma-informed care lens in medicine

St. Cloud Education Rights Advocacy Council
General Member

St. Cloud, MN
08/2019 –10/2021

- Advocated for equal educational opportunities in the St. Cloud 742 Public School District through coordinated events to raise awareness on litigation against the state for members of aforementioned

LEADERSHIP

Co-President MD Link
Co-President Black Doctors Association
3rd Vice President NAACP – St. Cloud
AAMF Board of Directors – St. Cloud

PROFESSIONAL ORGANIZATIONS

Student National Medical Association (Member since 2021)