

Ardalan Oraee

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POST-GRADUATE TRAINING

Detroit Medical Center/Wayne State University, Detroit, MI
General Surgery Residency

June 2026 – Present

South Georgia Medical Center, Valdosta, GA
Transitional Year Residency

June 2025 – June 2026

EDUCATION

University of Medicine and Health Sciences (UMHS), St. Kitts
Doctor of Medicine (MD)

May 2021 – Jan 2025

New York Medical College, Valhalla, NY
Master of Science: Biochemistry & Molecular Biology

May 2016

SUNY at Purchase, Purchase, NY
Premedical Post-Baccalaureate

June 2012 – July 2014

Stony Brook University (SUNY), Stony Brook, NY
Bachelor of Science: Health Science, Concentration: Healthcare Management

May 2012

HONORS & AWARDS

Professional Excellence Award, Transitional Year Residency — SGM Health, Valdosta, GA | June 2026

Recognized at SGM Health's annual Graduate Medical Education Residency Awards ceremony for excellence in professionalism, clinical training, and patient care.

Winner, Summer Trainees in Academic Research Poster Competition — NYMC, Valhalla, NY | 2015

Awarded for poster presentation on novel mechanistic insights and translational applications of NQO1 and its polymorphic variant NQO1*2.

RESEARCH EXPERIENCE

Clinical Research Fellow
Division of Clinical Research, Dept. of Anesthesiology, Detroit Medical Center
Mentor: Dr. Wael Saasouh

Jan. 2025 – Present

- Collaborate with faculty, residents, and medical students on perioperative medicine, acute pain, surgical outcomes, and quality improvement research.
- Develop study concepts and coordinate project design, data analysis, and manuscript drafting.
- Co-author of abstracts presented at ASA 2025 and PGA 2025.

Elucidating novel translational applications of the NQO1 C609T polymorphism.

Aug. 2015 – Aug. 2017

Mentor: Dr. Joseph M. Wu, NYMC, Valhalla, NY

- Project continued research from summer internship and focused on elucidating the molecular mechanism responsible for the C609T polymorphism and novel translational applications.
- Utilized in silico predictive modeling and data analysis to analyze protein structures, phosphorylation sites and candidate kinases for the NQO1 protein.
- Designed and performed laboratory experiments, including PCR, Western blotting, and enzyme assays.
- Collaborated with interdisciplinary teams to explore translational applications.

Characterizing the clinical significance of the NQO1 C609T polymorphism.

May 2015 – Aug. 2015

Mentor: Dr. Joseph M. Wu, NYMC, Valhalla, NY

- Project focused on the pathological importance of the C609T polymorphism as a factor in cancer susceptibility and chemoprevention through restoration of NQO1 function by chemopreventive agents such as sulforaphane and riboflavin.
- Employed a combination of in silico predictive modeling and data analysis software to determine putative phosphorylation sites and candidate kinases for the NQO1 protein.
- Analyzed the structures of NQO1 and NQO1*2 through computer molecular modeling.

PUBLICATIONS & PRESENTATIONS

- **Oraee A**, Saasouh W. Patient Preferences for Hemodynamic Monitoring Information: A Survey-Based Study in the US & UK. Presentation at the *American Society of Anesthesiologists Annual Meeting (ASA 2025)*, San Antonio, TX.
- **Oraee A**, Saasouh W. Bi-National Perspectives on Hospital Hemodynamic Monitoring. Presentation at the *79th PostGraduate Assembly in Anesthesiology (PGA 2025)*, New York, NY.
- **Oraee A**, Wu JM, Doonan BB, Pinto JT, Hsieh TC. Activation of NQO1 in NQO1*2 polymorphic human leukemic HL-60 cells by diet-derived sulforaphane. *Experimental Hematology & Oncology*. 2016.

VOLUNTEER WORK

Healthcare Volunteer (Inpatient)

Sept. 2024 – Jan. 2025

The William Breman Jewish Home, Atlanta, GA

- Supported resident-centered care planning and health education activities focused on preventive care, chronic disease management, and nutrition for elderly patients.

COVID-19 Volunteer

Apr. 2020 – July 2021

BronxCare Health System, Bronx, NY

- Assisted healthcare staff in managing and caring for an increased volume of COVID-19 patients.
- Implemented safety protocols to mitigate the spread of the virus within the hospital environment.

Healthcare Volunteer

July 2018 – Apr. 2020

BronxCare Health System, Bronx, NY

- Supported perioperative and inpatient care settings with exposure to obstetric anesthesia, operating room workflow, recovery room processes, and team-based patient care.

Team Captain

Aug. 2008 – Dec. 2018

American Cancer Society & FACE AIDS, White Plains, NY

- Organized fundraising and awareness campaigns, raising over \$25,000 for cancer research and HIV/AIDS-related aid.

LANGUAGES

English — Fluent | Persian — Fluent | Spanish — Professional working proficiency

PROFESSIONAL MEMBERSHIPS

American College of Surgeons

American College of Perioperative Medicine

American Society of Anesthesiologists

American Medical Association

Michigan State Medical Society

New York Academy of Sciences

OTHER ACTIVITIES & INTERESTS

Tutoring/mentorship | Mixed martial arts and fitness | Travel | Nutrition