Amrita Bindra

Biomedical Sciences MS Candidate · Emergency Medical Technician · Clinical Research

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Biomedical Sciences MS candidate at Wake Forest University School of Medicine with 4,000+ hours of direct patient care as an EMT and 3,000+ hours of research experience in metabolism, mitochondrial biology, and education research. Brings hands-on lab technique, statistical analysis, and a working foundation in data and technology. Seeking clinical research, biotech analyst, or life sciences consulting roles starting August 2027.

EDUCATION

Wake Forest University School of Medicine, Winston-Salem, NC — Aug 2026 – Aug 2027 (expected)
Master of Science, Biomedical Sciences

- Coursework includes genetics, clinical neuroanatomy, and pharmacology; graduate work analyzing emergency medical services data.

University of Tampa, Tampa, FL — Aug 2018 – Dec 2022
Bachelor of Science, Biology

- Phi Eta Sigma Honor Society; National Society of Collegiate Scholars; Skull and Bones.

RESEARCH EXPERIENCE

Verséa Health at UC San Diego, San Diego, CA — Mar 2023 – Nov 2023
Research Assistant

- Supported biomedical research on cellular metabolism and mitochondrial health, including cell culture and virology-related lab work.
- Ran oxygen consumption and extracellular acidification assays on the Agilent Seahorse XF Pro Analyzer.
- Imaged reactive oxygen species with the BioTek Cytation 5 after treating cells with antivirals, antibiotics, antifungals, OTC drugs, serum, and plasma.
- Taught cell culture and aseptic technique to high school students, undergraduates, and postdoctoral researchers.

University of Tampa, Tampa, FL — Aug 2021 – May 2022
Research Assistant

- Studied college student learning and engagement after COVID-19; contributed to statistical analysis including ANOVA.
- Collected and analyzed data with Excel, Qualtrics, Atlas.ti, and Yellowdig; presented at the Spring 2022 Research Symposium.

CLINICAL EXPERIENCE

The Venetian Resort, Las Vegas, NV — Jul 2024 – Jul 2026
Emergency Medical Technician

- Responded to medical emergencies in a high-volume resort serving international guests, often across language barriers.
- Performed rapid patient assessment and communicated clearly with patients, families, and receiving teams.

American Medical Response, Las Vegas, NV — Dec 2023 – Jul 2024
Emergency Medical Technician

- Provided prehospital emergency care in a high-pressure 911 system.

Physician shadowing and hospice volunteering — Las Vegas, NV

- 200+ hours of physician shadowing, including in the emergency department.
- Hospice volunteer with LifePath Hospice Care and Compassion Care Hospice; dedicated one-on-one volunteer at Heights of Summerlin.

ADDITIONAL EXPERIENCE

University of Tampa, Tampa, FL — Aug 2021 – Dec 2022
IT Student Analyst; Genetics Tutor

- Supported software maintenance and cybersecurity threat prevention; provided technical help to students, faculty, and staff.
- Tutored undergraduate genetics (Aug 2021 – May 2022).

CERTIFICATIONS AND SKILLS

Certifications: NREMT Emergency Medical Technician (through Jul 2027); AHA Basic Life Support (through Jun 2027)
Laboratory: Cell culture, aseptic technique, Agilent Seahorse XF Pro, BioTek Cytation 5, metabolic and ROS assays
Data and technology: Statistical analysis (ANOVA), Excel, Qualtrics, Atlas.ti, Python (foundational), IT support and cybersecurity basics