

Kimberly Villarreal

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Career Objective

Dedicated and compassionate bilingual (English/Spanish) pre-med student at New Mexico State University pursuing a Bachelor's degree in Biology. Passionate about pediatric emergency medicine with a strong foundation in patient care, clinical diagnostics, and laboratory research. Experienced in neonatal hearing screening and virology research. Seeking opportunities to further develop clinical and research experience in preparation for a career in medicine.

Education

Bachelor of Science in Biology (Pre-Med) | New Mexico State University | Las Cruces, New Mexico

EXPECTED MAY 2026

Relevant Coursework:

BIOL353 Pre-Prof Human Anatomy
BIOL354- Physiology of Human
BIOL311 General Microbiology
BIOL305- Principles of Genetics
BIOL475- Virology
BIOL377- Cell Biology
NURS100- Nursing 106 and Health Education
CHEM314&315- Organic Chemistry I & II (in progress/completed)

Pre-Med Club | New Mexico State University | Las Cruces, New Mexico

- Member of Leadership & involvement

High School Diploma | Deming High School | Deming, New Mexico

MAY 2022

- Member of SkillsUSA

Dual Credit Courses | Western New Mexico University | Deming, New Mexico

2018-2022

- NURS100- Nursing 106 and Health Education
- BIOL101- Human Biology

Experience

Newborn Hearing Screening Technician | Memorial Medical Center & Mountainview Regional Medical Center | Las Cruces, New Mexico

JUNE 2025 – PRESENT

- Performed automated auditory brainstem response (AABR) and otoacoustic emissions (OAE) screenings for newborns in NICU, Labor & Delivery, and Postpartum units
- Calibrated screening equipment and monitored ambient and myogenic noise levels to ensure accurate test results
- Applied electrodes to the forehead, neck fold, and upper back/shoulder, and used sound-transmitting earmuffs to deliver auditory stimuli
- Assessed infant movement, sleep state, and feeding timing to optimize testing conditions and reduce interference

- Safely positioned and soothed infants to obtain reliable readings
- Maintained awareness of CPR and neonatal safety protocols, recognizing and responding to signs of distress
- Educated parents on screening procedures and results, providing clear communication in both English and Spanish
- Documented results and coordinated follow-up care for infants requiring additional testing
- Collaborated with NICU nurses, pediatric staff, and labor & delivery teams to ensure proper workflow and patient care

Undergraduate Researcher in Virology Lab | New Mexico State University | Las Cruces, New Mexico

DECEMBER 2025 – PRESENT

Undergraduate Research Scholar (URS)-NM AMP

- Investigating viral replication between human endemic and sylvatic (wildlife) dengue virus strains in cultured mosquito cells through a competition project
- Utilizing U4.4 and C6/36 cells, immortalized mosquito cell lines (*Aedes albopictus*)
- Maintaining and passaging cells, planting new cell lines, and preparing growth media
- Performing viral plaque assays to determine titers and co-infections, along with immunoperoxidase staining assays
- Monitoring growth curves for U4.4 and C6/26 cells lines

Veterinary Assistant | High Desert Veterinary | Deming, New Mexico

JANUARY 2022 – AUGUST 2022

- Assisted with pre-radiographic preparations and safely positioned animals for diagnostic imaging (X-rays)
- Scrubbed in and observed surgical procedures, adhering to sterile field protocols
- Prepared and organized surgical instruments and ensured proper sterilization using autoclave systems
- Drew up and prepared injections for the veterinarian; assisted in administration and restraint
- Monitored and recorded post-operative vitals; removed IV catheters and cleaned insertion sites
- Collected blood samples, labeled, and processed them using a centrifuge for diagnostic testing
- Applied ECG leads to monitor heart rate and rhythm, and recorded readings
- Trimmed nails, conducted basic grooming, and assisted with animal handling during procedures
- Supported intubation procedures by restraining animals and assisting with endotracheal tube placement
- Maintained clean and sanitary exam and treatment areas in compliance with infection control protocols

Volunteer Experience

Deming Animal Guardians – Animal care, feeding, and exercise

My Little School – Assisted teachers with classroom support

Memorial Elementary – Supported school nurse with student health needs

Senior Center & Nursing Home – Provided administrative help and resident engagement

Skills

- Certified Nursing Assistant skills
- CPR & First Aid skills
- OSHA Certified (Health & Safety Compliance)
- Bilingual: Fluent in English and Spanish
- Neonatal hearing screening (AABR)
- Electrode placement and physiological monitoring
- NICU and Labor & Delivery clinical exposure

- Infection control and sterile technique
- Cell culture and virology laboratory techniques
- Biosafety and laboratory protocols
- Autoclave sterilization
- Excellent verbal and written communication skills
- Proficient in Microsoft Office Suite (Word, PowerPoint, Excel), Google Workspace
- Strong organizational, multitasking, and problem-solving abilities

Reference

References:

Available upon request.