



**RESUME OF  
MALLORY A. H. PAGENKOPF**

***EDUCATION***

- 5/2011**      ***University of New Haven, West Haven, CT***  
Master of Science, Forensic Science- Criminalist Track
- 5/2007**      ***University of Massachusetts, Amherst, MA***  
Bachelor of Science, Microbiology

***EMPLOYMENT***

- 7/2018 – Present**      ***Serological Research Institute, Richmond, CA***  
Forensic Serologist I  
Handling, examination and screening of evidence items. Extraction, quantification, and amplification of DNA from known evidence samples. Analyze and interpret data, and provide expert testimony. Experience includes organic and robotic extraction, quantitation with Real-Time PCR using Quantifiler Trio kit on the ABI 7500, amplification with Identifiler, Identifiler Plus, MiniFiler, GlobalFiler, YFiler, and Yfiler Plus kits on the ABI 9700, STR and YSTR analysis on the ABI 3130xl and 3500 using GeneMapper ID-X software.
- 8/2015 – 8/2016**      ***ARP Sciences LLC, Dover AFB, DE***  
DNA Analyst  
Worked as a Forensic Scientist II in the mitochondrial DNA (mtDNA) section of the Armed Forces DNA Identification Laboratory (AFDIL), as a contractor supporting the Armed Forces Medical Examiners System (AFMES). Assisted the past accounting section in the identification of missing service members through the use of mitochondrial and nuclear DNA. Performed organic and non-organic extractions of mtDNA and nuclear DNA from: skeletal remains, teeth, hair, stamps, envelopes, bloodstains, and buccal swabs. Utilized problem solving and critical thinking skills in processing of degraded DNA samples. Maintained and organized multiple cases while preserving chain of custody. Analyzed mtDNA and nDNA data using Sequencher and GeneMapper. Wrote case reports and performed combined likelihood ratio statistics on cases. Compared evidence sample mtDNA and nDNA to family references. Worked individually and on a team to perform all duties and meet the organization's case submission goals.

**8/2015 – 8/2016**

***ARP Sciences LLC, Dover AFB, DE (continued)***

DNA Analyst

Participated in accreditation audits by the American Society of Crime Laboratory Directors/Laboratory Accreditation Board (ASCLAD/LAB) and International Organization for Standardization (ISO). Lead Point Of Contact (POC) for the Post PCR Low Copy Number Laboratory. Scheduled and assisted 9 technicians in weekly and daily laboratory maintenance of the Post PCR Low Copy Number Laboratory. Proficient in: extraction, gel electrophoresis, quantification interpretation, amplification using Polymerase Chain Reaction (PCR) on thermocyclers, DNA sequencing and typing using ABI 3130xl capillary electrophoresis, and data analysis of mtDNA (Sequencher) and nuclear DNA (GeneMapper).

**6/2011 – 8/2015**

***American Registry of Pathology, Dover AFB, DE***

DNA Technician

Worked as a Forensic Scientist I in the mtDNA section of AFDIL, as a contractor supporting AFMES. Assisted the past accounting section in the identification of missing service members through the use of mtDNA and nDNA. Utilized aseptic techniques in laboratory processing of degraded samples. Performed mtDNA processing and analysis on samples including: Chelex extraction, amplification using PCR on thermocyclers, gel electrophoresis, DNA sequencing on an ABI 3130XL capillary electrophoresis, and data analysis using Sequencher. Carried out nDNA amplification and typing on ABI 3130XL capillary electrophoresis. Assisted with weekly and daily laboratory maintenance in Pre and Post PCR Low Copy Number laboratories on a bi-monthly basis.

**9/2009 – 5/2011**

***University of New Haven, West Haven, CT***

Graduate Teaching Assistant

Graduate Teaching Assistant for 3 semesters of Microbiology lab and one semester of Immunology lab. Presented lab lectures, created tests, and graded reports to an average of 30 students a semester. Taught students basic microbiology laboratory skills including: microscope use, aseptic technique, bacterial slide staining, media inoculation, and identification of bacteria. Taught students basic immunology laboratory skills including: dilution, blood components and cell counting, blood typing, gel electrophoresis, immunofluorescence, and ELISA. Cultured and maintained bacterial cell lines for use in the laboratory.

**9/2007 – 8/2009**

***Rapid Micro Biosystems, Lowell, MA***

Research Assistant

Worked on the Research and Development and Technical Services teams supporting the Growth Direct™ system. Performed validation experiments, tested customer samples, and prepared media cassettes for customers. Presented monthly laboratory meetings updating co-workers on the progress of

**9/2007 – 8/2009**

***Rapid Micro Biosystems, Lowell, MA (continued)***

Research Assistant

experiments and gave customer demonstrations of the Growth Direct™ System. Utilized aseptic technique to perform media prep, environmental monitoring, microscope use, funnel assembly, quality control of products, and daily laboratory maintenance. Maintained several bacterial cell culture lines for use by the laboratory. Composed and maintained an individual detailed laboratory notebook of all experiments performed.