

Kaylind Novick

(978) 504-1625 • kaylind.novick13@outlook.com • www.linkedin.com/in/novick-k

Professional Summary:

Detail orientated forensic scientist with a B.S in Forensic Science, supplemented by a minor in Criminal Justice and a M.S in Cellular and Molecular biology. Brings experience in fast paced GxP compliant laboratory environments and strong collaborative and independent research abilities. Skilled with hands-on experience in DNA extraction, purification, and downstream analysis, preliminary and confirmatory testing of biological substances, and ability to utilize digital databases.

Education:

M.S., Cellular and Molecular Biology - University of New Haven, May 2025

B.S., Forensic Science - Biology, Minor in Criminal Justice - University of New Haven, May 2024

Relevant Coursework:

Introduction to Forensic Science I&II • Introduction to Criminal Justice • Forensic Biology w/ Lab • Forensic Chemistry w/ Lab • Seminar in Forensic Science • Crime Scene Investigation • Criminal Procedure • Criminal Law • Cold Cases • Molecular Biology w/ Lab • Molecular Genetics/Genomics • Physical Methods w/ Lab • Laboratory Safety Course • IRB Approval Process (human samples) • DNA Lab (using DNA collected from volunteers) • Writing & Speaking for Professionals

Laboratory Skills:

Bench Techniques: Following chain of custody procedures when handling evidence as well as maintaining thorough documentation under sterile conditions with proper PPE. Keeping a clean and organized bench space. Documentation of all testing performed on evidence.

Molecular Techniques: DNA extraction from a variety of sources (porous, nonporous, human biological) for downstream analysis, identifying mixed samples, testing of biological substances (blood, urine, saliva, semen) through preliminary and confirmatory tests (colorimetric & immunochromatographic). Follows standard operating procedures and protocols for sample analysis.

Instrumentation: Centrifugation, Nanodrop spectrometer, Polymerase chain reaction (RT-qPCR, RT-PCR), Capillary/agarose gel electrophoresis, micropipetting, microscope

Data Analysis: Interpreting STR (Y-STR profiles), comparison of DNA profiles, familiarity with enforcement sites (CODIS)

Communication: Report writing, technical reviews, oral presentation

Research Experience:

Honors Thesis Research | University of New Haven | West Haven, CT | January 2022-May2024

Project: "How Can Modern DNA Analysis and Databases Aid in Solving Open Sexual Assault Cases"

Advised by Dr. Heather Coyle

- Under the PI, planned and executed laboratory experiments related to the research question.
- Obtained International Review Board (IBR) certification: RCR Basic Course (expired December 2025), Biomedical Data or Specimens Only Research Course (expired December 2025)
- Performed DNA extraction, purification, quantification, and downstream molecular and forensic analyses following standardized protocols
- Utilized forensic-based kits: Invitrogen Purelink Genomic DNA Mini Kit & Kit for Purification of Genomic DNA, Quantifiler Trio, HP, and Trio DNA Quantification Kit, GlobalFiler PCR Amplification Kit and IQC PCR Amplification Kits
- Maintained detailed experimental documentation and ensured reproducibility of methods.
- Troubleshoot laboratory procedures and optimized experimental workflows.
- Familiarized with International Review Board and research processes.
- Applied molecular and forensic techniques to real world scenarios.
- Presented research findings through written and oral reporting.

Work Experience:

CSS Technician I | Azenta Life Sciences | Site Specific- Remote | November 2025-May 2026

- Executed laboratory workflows in accordance with GxP standards and established SOPs while maintaining a high level of documentation accuracy
- Managed biological sample inventory, tracking thousands of temperature-sensitive specimens while ensuring complete chain of custody and sample integrity.
- Maintained accurate laboratory inventory utilizing Microsoft Excel and proprietary software
- Collaborated with operations, logistics, and technical teams between multiple companies to prioritize optimal workflows and efficiency.
- Performed quality checks on new and preexisting samples to ensure compliance with laboratory standards.
- Safely handled and worked with liquid nitrogen (LN2) on a daily basis following laboratory safety protocols and expectations.

Biochemistry Lab Assistant | University of New Haven | West Haven, CT | September 2023-May 2024

- Prepared reagents, stock solutions, buffers, and sample aliquots to according to established protocols.
- Assisted students with questions, troubleshooting, and laboratory navigation.
- Maintained accurate laboratory records and ensured compliance with safety procedures and SOPs.
- Maintained laboratory organization equipment readiness, and chemical inventories to support daily laboratory sessions

Academic Honors/Scholarships/ Extra Curriculum:

2019 Presidential Scholarship | University of New Haven

- Undergraduate merit based scholarship awarded based on standardized testing scores and transcripts

2020-2024 Honors Program | University of New Haven

- Acceptance based on application essay and high school transcripts
- Conducted an honors thesis and participated in honors level courses during undergraduate schooling

2021, 2023, 2024 Dean's List | University of New Haven

- Honor awarded based on maintaining a GPA of 3.5 or higher during the semester

2022-2024 Forensic Science Student Association | University of New Haven

- Undergraduate student club
- Assisted as a forensic scientist in a mock mass casualty incident working with criminal justice, and public safety students

2024 Honor's Thesis Presentation | University of New Haven

- "How Can Modern DNA Analysis and Databases Aid in Solving Open Sexual Assault Cases" mentored by Dr. Heather Coyle
- Presented undergraduate research in fulfillment of the requirements of the undergraduate Honors Program

2024 Dean's Scholarship | University of New Haven

- Graduate scholarship awarded based on performance during undergraduate studies

2024 Bioscience Careers Forum of Connecticut | New Haven, CT

- Hosted by The Jackson Laboratory, BioPath, University of Southern Connecticut, and Central Connecticut University
- Networking event designed to introduce expecting graduates to bioscience career opportunities in Connecticut

2025 Annual DNA Symposium | University of New Haven

- "Genetic Justice: Solving Cold Cases with DNA & Genealogy" hosted by the Henry C. Lee Institute of Forensic Science
- Symposium featuring guests who have dedicated their careers to working on cold cases and how they utilized forensic and law enforcement techniques to solve them