

# MARY DAWSON

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## CURRENT EMPLOYMENT

- 2024 Biology Lab Manager and Adjunct Professor.  
Rivier University, Nashua University, NH  
Coordinate the use of six instructional laboratories, maintain building, chemical hygiene, waste management, laboratory inventory, equipment, ordering and receiving supplies. Supporting multiple professors, supervising work study students, teaching anatomy and physiology laboratory.
- 2019-Present Forensics Education and Consulting [www.forensicsedu.com](http://www.forensicsedu.com)  
Teaching basic forensic science to K-12
- 2024 Teacher Grade 7 Math &. Science, SAU #24, Weare, NH
- 2023-2024 Paraprofessional, SAU #19, Goffstown, NH
- 2017-2023 Substitute Teacher K-12, SAU #19, Goffstown, NH
- 2007-Present Forensic Consultant for States Attorney, Public Defender, Private

## EDUCATION

- 1994 Master of Forensic Science, Major-Criminalistics  
The University of New Haven, West Haven, CT
- 1992 Bachelor of Science Biology Honors  
Queen's University, Kingston, Ontario Canada

## EMPLOYMENT EXPERIENCE

- 1999- 2007 Forensic Scientist Criminalist II  
New Hampshire State Police Forensic Laboratory, Concord, NH  
Crime scene investigation, serology, blood spatter, DNA  
Casework/technical and administrative review/validation/testimony  
Safety Officer: supervise/generate/implement/train/maintain procedures
- 1995-1999 Forensic Scientist Chemist II  
Maryland State Police Crime Laboratory, Pikesville, MD  
Crime scene investigation, serology, blood spatter, DNA  
Casework/technical and administrative review/validation/testimony  
DNA Quality Control & Safety Officer, trained new analysts  
Set up satellite laboratory for serology and DNA

1993-1994 Teaching Assistant- Environmental Biology Laboratory  
University of New Haven, West Haven, CT

## **INTERNSHIPS AND VOLUNTEER WORK**

1999-2020 Up Reach Therapeutic Equestrian Center  
Fostering independence and improving the physical, emotional, and psychological well-being of individuals with and without disabilities by partnering with the power of horses.  
Sign Language

1994-1995 Center of Forensic Science DNA Unit Toronto, Ontario, Canada  
STR Validation and setup of satellite laboratory

1993-1993 Center of Forensic Science Trace Unit Toronto, Ontario, Canada  
Fabric Reaction to Elements and Environmental Conditions Validation

## **PROFESSIONAL TRAINING**

2004 Capillary Electrophoresis in DNA Analysis  
New Hampshire State Police Basic Photography School

2003 Advanced Bloodstain Pattern Analysis

2002 Advanced 310 Genetic Analyzer & AmpFISTR Training

2001 Hazardous Waste (RCRA) Training Detecting Blood at Crime Scenes  
Chemical Hygiene Training  
Bloodstain Pattern Analysis  
Promega STR Educational Forum  
Population Statistics and Forensic DNA Analysis DNA Auditor Training

2000 DNA in the Laboratory and the Courtroom: Scientific/Technical/Legal  
Casework Guidelines and Mixture Interpretation Fluorescent STR  
Validation Workshop  
Scientific Working Group on DNA Analysis Methods

1999 Advanced 310 Genetic Analyzer and AmpFISTR Training  
Quality Control of Pipettes in Laboratory  
Blood Spatter/STR Interpretation Workshop

1998 STRs Next Generation  
OSHA & Safety Health and Safety in the Workplace

1997 STR Multiplexing, Automation and Application Forensic Statistics and  
Population Genetics  
Technical Working Group on DNA Analysis Methods Basic Principles of  
DNA Typing and Interpretation DNA Typing, Interpretation and  
Testimony Workshop

- 1996 Expert Forensic DNA Testimony Chemiluminescence Detection for RFLP STR Analysis and Fluoro-imaging  
Continuing Medical Education Course in DNA Data Banks & Repositories, CODIS Users Group Meeting
- 1995 Chemiluminescence Probe Labeling and Detection
- 1994 Extraction, Quantification, Amplification, Gene Scanner Detection and Statistical Analysis Database

## **PRESENTATIONS**

- 1999-2007 Saint Anslem's College, UNH, Northeastern University  
Guest lecturer, Introduction to Forensic Lab/Serology/DNA/CODIS
- 1999-2007 NH Police Standards and Training Academy, Keene/Rochester PD  
Guest lecturer, Blood Spatter Mock Crime Scene
- 1997 Dawson, M.J. The Trials and Tribulations of Validating Chemiluminescence Mid- Atlantic Association of Forensic Sciences Annual Meeting, Roanoke, VA
- 1996 Dawson, M.J. DNA Testing at the Maryland State Police Crime Laboratory Southern Association of Forensic Scientists Annual Meeting, Tallahassee, FL

## **MEETINGS ATTENDED**

- 1993/94/97/99 American Academy of Forensic Sciences Annual Meeting, Boston, MA  
1996 Armed Forces Institution of Pathology, CODIS Meeting, Tallahassee, FL
- 1996 Southern Ass. of Forensic Scientists Annual Meeting, Tallahassee, FL  
1996/97/99 Mid-Atlantic Ass. of Forensic Scientists Annual Meeting, Harrisburg, PA  
1997 Cambridge Healthtech Institute Annual Conf., Fairfax, VA  
1998 OSHA & Safety Meeting, Baltimore, MD
- 1998 Mid-Atlantic Ass. of Forensic Scientists Health and Safety, Fairfax, VA  
1999 11<sup>th</sup> International Symposium Human Identification, Biloxi, MI  
2001 7<sup>th</sup> CODIS User's Conf., State Administrator's Meeting, Arlington, VA  
2003/05/06 NIJ Annual DNA Grantees' Workshop, Washington, DC