

Deanna D. Miller

Massachusetts State Police Crime Laboratory
124 Acton Street Maynard, MA 01754

Phone: (978) 451-3512 Fax: (978) 451-3401 Email: deanna.miller@pol.state.ma.us

Education

- 1996-
2000 **The Pennsylvania State University** University Park, PA
 •Bachelor of Science in Biology, graduation December 2000
- 1992-
1996 **Tidioute High School** Tidioute, PA
 •Graduated with Salutatorian Honors

Related Course Work

Organic and General Chemistry Courses with Laboratory, General and Advanced Biology Courses with Laboratory, Biochemistry, Population Genetics, Statistics, Molecular Biology, Administration to Justice Courses, Criminal Investigation

Work Experience

- June 2014-
Present **Massachusetts State Police Crime Laboratory** Maynard, MA
 Criminalistics Unit – Forensic Scientist III
 •Supervising Forensic Scientist II's by providing technical and administrative advice
 •Assigning casework
 •Managing Forensic Scientist II's caseload
 •Providing personnel evaluations
 •Providing assistance on protocol and procedure updates
 • Assisting in the training program of Forensic Scientists (when needed)
 • Comply with ANAB (ANSI-ASQ National Accreditation Board) International Program and the Massachusetts State Police Crime Laboratory policies, procedures and accreditation standards to ensure quality assurance and controls
 • All duties of a Forensic Scientist II (see below)
- Feb 2014-
June 2014 **Massachusetts State Police Crime Laboratory** Maynard, MA
 Criminalistics Unit – Acting Forensic Scientist III
 •Supervising Forensic Scientist II's by providing technical and administrative advice
 •Assigning casework
 •Managing Forensic Scientist II's caseload
 •Providing personnel evaluations
 •Providing assistance on protocol and procedure updates
 • All duties of a Forensic Scientist II (see below)
- June 2003-
Oct 2009;
May 2010-
Feb 2014 **Massachusetts State Police Crime Laboratory** Maynard, MA
 Criminalistics Unit – Forensic Scientist II
 (Previously Chemist II from June 2003 to October 2009 and May 2010 to December 30th, 2012)
 •Evidence handling, documentation, identification, analysis and extraction of forensic evidence
 •Maintaining chain of custody and integrity of evidence
 •Testing, preparing and initiating forensic samples for analysis by other units within the crime laboratory
 • Preforming bloodstain pattern analysis on forensic evidence
 •Extracting and analyzing DNA evidence from biological samples – End date September 23rd, 2012
 •Comparing genetic profiles of forensic samples – see above
 •Facilitating communication between attorney's, investigator's and other officials
 •Responsible for report writing and presentation of results in court

MM 2/2/23 1

- Responding to crime scenes including documenting the crime scene, identification of biological and trace evidence, collecting and transporting evidence to the laboratory
- Reviewing casework
- Preparing and documenting evidence prior to shipment to an external vendor for analysis
- Reading forensic literature
- Training other chemists (when needed)
- Providing presentations to the public to teach forensic awareness in the community (when requested)
- Participate (when needed) as an internal auditor to ensure that the various units in the laboratory are complying with the laboratories protocols, procedures and accreditation program
- Participated in a three week process mapping group to develop a plan on how to make improvements to the laboratory

Oct 2009-
May 2010

Massachusetts State Police Crime Laboratory

Maynard, MA

Criminalistics/DNA Units – Acting Chemist III

- Supervising chemist II's by providing technical and administrative advice
- Assigning casework
- Managing chemist II's caseload
- Providing personnel evaluations
- Providing assistance on protocol and procedure updates
- All duties of a Chemist II (see above)

Oct 2002-
June 2003

New England Peptide

Gardner, MA

Laboratory Technician

- Preparing amino acid sequences for peptide synthesis
- Synthesizing custom made peptides for customers using the ABI 433, Apex, and Pioneer peptide synthesizers
- Performing multi-step organic chemistry in manipulating peptides to achieve optimum satisfaction for the customer
- Preparing and analyzing High Performance Liquid Chromatography analytical samples for data analysis
- Preparing and analyzing Mass Spectral analysis data

June 2001-
Oct 2002

Massachusetts State Police Crime Laboratory

Sudbury, MA

CODIS Unit Technician

- Scheduling, coordinating and collecting whole blood samples of convicted criminals for DNA analysis
- Maintaining and updating the Combined DNA Indexing System for the Commonwealth of Massachusetts
- Preparing blood samples for analysis
- Verifying criminal records in qualification for DNA data bank; MGL Chapter 22E
- Facilitating communication between court officials, probation officers, parole officers, and corrections officers
- Preparing and presenting state database "hit" map for display in the crime laboratory
- Educating and training unit interns

Professional Development

- **Training:** **Communicating Conclusions in Bloodstain Pattern Analysis**
Massachusetts State Police Crime Laboratory - Maynard, MA
Online seminar completed December 11th, 2019
- **Training:** **Fluid Dynamics of Bloodstain Pattern Analysis**
Massachusetts State Police Crime Laboratory - Maynard, MA
40 hour course completed May 20-24, 2019
Instructors: Professor Mark Jermy and Rosalyn Rough
- **Training:** **Advanced Bloodstain Pattern Analysis Workshop (with an Introduction To Bloodstain Pattern Analysis on Fabrics)**
Massachusetts State Police Crime Laboratory - Maynard, MA
40 hour course completed March 27 – 31, 2017
Instructors: LeeAnn Singley and Toby Wolson

MHC 2/2/23₂

- Training:** **Error and Uncertainty in Bloodstain Pattern Analysis**
 Massachusetts State Police Crime Laboratory – Maynard, MA
 Online seminar completed February 28, 2017
- Training:** **Sexual Assault Kit Backlog Training**
 Massachusetts State Police Crime Laboratory – Maynard, MA
 Completed August 30, 2016
- Training:** **Trace Evidence Awareness and Hair Examination Workshop**
 Massachusetts State Police Crime Laboratory - Maynard, MA
 40 hour course completed April 4-7, 2016
 Instructors: Clyde Wells and Ted Schwartz
- Training:** **Massachusetts State Police DNA Internal Auditor Training**
 Massachusetts State Police Crime Laboratory - Maynard, MA
 Completed February 22, 2016
- Training:** **Biohazard Training: Provided by 24 Trauma**
 Massachusetts State Police Crime Laboratory – Maynard, MA
 Completed February 18, 2016
- Training:** **Root Cause Analysis for Forensic Scientists – Provided by Sorenson Forensics**
 Massachusetts State Police Crime Laboratory - Maynard, MA
 Completed September 30, 2015
- Training:** **Criticism & Discipline Skills for Managers – Provided by Career Track**
 Hilton Garden Inn – Worcester, MA
 Completed August 20, 2015
- Training:** **Elevating Communication and Connecting with People (Through Time Management) – Provided by JMN Ventures, Inc.**
 Massachusetts State Police Crime Laboratory - Maynard, MA
 Completed June 17, 2014
- Training:** **Supervisor Leadership Training – Provided by Sorensen Forensics**
 Massachusetts State Police Crime Laboratory - Maynard, MA
 Completed May 14, 2014
- Training:** **Conflict of Interest Law**
 State Ethics Commission
 Massachusetts State Police Crime Laboratory – Maynard, MA
 Completed June 17, 2013
- Meeting:** **Northeastern Association of Forensic Scientists Annual Meeting**
 Saratoga Springs, NY
 November 13-16, 2012
- Training:** **“Surviving a DNA Cross-Examination” Workshop**
 Completed at the Northeastern Association of Forensic Scientists Annual Meeting - Saratoga Springs, NY
 Completed November 13, 2012
 Workshop focused on expert witness courtroom testimony
- Training:** **Courtroom Testimony – Provided by Sorenson Forensics**
 Massachusetts State Police Crime Laboratory - Maynard, MA
 Completed August 29, 2012

MRE 2/2/23
3

- Training:** **Laboratory Safety Programs**
 Department of Justice/President's DNA Initiative
 Massachusetts State Police Crime Laboratory - Maynard, MA
 Completed August 16, 2012

- Training:** **Y-Screening: An Alternative to Microscopic Examination – Provided by Sorenson Forensics**
 Massachusetts State Police Crime Laboratory - Maynard, MA
 Completed June 25, 2012

- **Training:** **Annual Review of DNA Data Accepted at NDIS**
 U.S. Department of Justice Federal Bureau of Investigations Laboratory Division
 Massachusetts State Police Crime Laboratory – Maynard, MA
 Completed January 21, 2012; January 13, 2011; January 26, 2010; January 20, 2009

- Training:** **Interpretation Workshop DNA Training – Provided by Sorenson Forensics**
 Massachusetts State Police Crime Laboratory – Maynard, MA
 Completed December 13, 2011
 Focused on YSTR and STR mixture interpretation of DNA samples and SWGDAM guideline overview

- Meeting:** **Northeastern Association of Forensic Scientists Annual Meeting**
 Newport, RI
 November 5, 2011
 Focused on multiple topics pertaining to the field of forensics, including high profile cases in the United States

- Training:** **Customized Advanced DNA Training – Provided by Applied Biosystems**
 Massachusetts State Police Crime Laboratory – Maynard, MA
 Completed November 16, 2010
 Focused on genomics and genetics, PCR analysis and methods for working with complex samples

- Training:** **Weapons of Mass Destruction Crime Scene Management for Emergency Responders**
 U.S. Department of Homeland Security FEMA, Center for Domestic Preparedness
 Acton, MA
 Completed November 6, 2009

- Training:** **Bloodstain Pattern Analysis II**
 Massachusetts State Police Crime Laboratory – Maynard, MA
 40 hour course completed June 22 – June 26, 2009
 Instructors: Tom Bevel and Ross Gardner

- Training:** **Advanced Troubleshooting for DNA Instruments – Provided by Applied Biosystems**
 Massachusetts State Police Crime Laboratory – Maynard, MA
 24 hour course completed April 28 – April 30, 2009

- Training:** **DNA Analysis and Interpretation/DNA Academy III**
 Northeast Regional Forensic Institute, University at Albany
 Completed at Massachusetts State Police Crime Laboratory - Maynard, MA
 Training during March 2007 - November 2007; completed November, 2007

MKE 2/2/23
4

- Training:** **Medicolegal Death Investigator Training Course**
Saint Louis University School of Medicine - Saint Louis, MO
40 hour course completed October 1- October 5, 2007
- Training:** **Forensic Mixture Interpretation and Statistical Analysis**
Massachusetts State Police Crime Laboratory/Northeastern Regional Forensic Institute
Massachusetts State Police General Headquarters – Framingham, MA
40-hour course completed June 20–24, 2005 and April 23-27, 2007
Instructors: Ray Wickenheiser, George Carmody and Joanne Sgueglia
- Institute Scholar for Completion of the National Crime Scene Training Center Curriculum; Required trainings include the following three courses:**
- Training:** **Crime Scene Analysis and Reconstruction**
Henry Lee Institute, University of New Haven – New Haven, CT
40 hour course completed March 14-18, 2005
- Training:** **Detection and Enhancement of Latent Evidence**
Henry Lee Institute, University of New Haven – New Haven, CT
40 hour course completed October 25-29, 2004
- Training:** **Evidence Recognition, Documentation and Collection**
Henry Lee Institute, University of New Haven – New Haven, CT
40 hour course completed July 12-16, 2004
- Training:** **Forensic Microscopy**
McCrone Research Institute – Chicago, IL
40 hour course completed April 12-16, 2004
- Training:** **Basic Bloodstain Pattern Analysis**
Boylston Criminal Justice Training Academy – Boylston, MA
40 hour course completed November 17-21, 2003
Lead Instructor: Debbie McKillop Shields
- Training: Criminal Justice Information System (CJIS)/Criminal History Training**
Milford, MA
8 hour training completed February 2002
- Training: Blood Collection Certification of Criminal Offenders**
Massachusetts State Police Crime Laboratory - Sudbury, MA
Training as met by the guidelines of Massachusetts General Law, Chapter 22e – Section 4
Completed July, 2001

Professional Organizations

- International Association of Bloodstain Pattern Analysis (IABPA) - member since February, 2004

MRE 2/2/23
5