

Education	Boston University School of Medicine; Boston, MA September 2011 - September 2013 M.S. in Biomedical Forensic Sciences <ul style="list-style-type: none">- Coursework in: Forensic Biology, Chemistry, Toxicology, Pathology, DNA analysis, Criminalistics, Criminal Law, and other topics in forensic science- Completed research thesis: "Evaluation of Wet-Vacuum Technique versus Traditional Methods for Collection of Biological Crime Scene Samples"
	University of Vermont; Burlington, VT September 2005 – January 2010 B.A. in Biology; Chemistry/Business Administration Minors <ul style="list-style-type: none">- Relevant coursework: molecular and cell biology, organic chemistry, toxicology, genetics, physiology, statistics
Experience	Forensic Chemist IV May 2015 – Present Vermont Forensic Laboratory; Waterbury, VT <ul style="list-style-type: none">- Perform presumptive and confirmatory toxicological analysis for drugs and alcohol in whole blood DUI samples- Calibrate, certify, and maintain evidentiary breath alcohol testing instrumentation- Review and interpret case information for retrograde extrapolation calculations- Validate new methodology and instrumentation- Instruct law enforcement personnel on protocols for evidentiary drug and alcohol testing
	Scientist August 2013 – May 2015 Burlington Labs, Inc.; Burlington, VT <ul style="list-style-type: none">- Performed clinical testing for drugs of abuse using various high-throughput screening and confirmation methods- Participated in research and development functions to validate and optimize testing methods- Communicated with clinicians and counselors to interpret and analyze results
	Intern February 2013 – July 2013 Boston Police Department Crime Lab; Boston, MA <ul style="list-style-type: none">- Performed analysis and comparison of acid phosphatase and P30 positive/weak positive serology samples
	Teaching Assistant June 2012 – July 2013 BU Division of Graduate Medical Sciences; Boston, MA <ul style="list-style-type: none">- Assisted in preparation and instruction of Forensic Biology Lab and Crime Scene Investigation courses
	Scientific Research Technician January 2011 – August 2011 IDEXX Laboratories, Inc.; Westbrook, ME <ul style="list-style-type: none">- Maintained various types of cell lines for use in veterinary immunoassay test kits
	Bartender December 2009 – August 2010 Das Bierhaus; Burlington, VT <ul style="list-style-type: none">- Served <i>steins</i> of Germany's finest beers
Relevant Training	Society of Forensic Toxicologists 2019 annual meeting; October 13 – 18, 2019 San Antonio, TX
	Society of Forensic Toxicologists 2018 annual meeting; October 7 – 12, 2018 Minneapolis, MN

Xevo TQ-XS/Xevo TQ-S micro Training Course; May 8-11, 2018
Waters Corporation; Beverly, MA

The Robert Borkenstein Course: Effects of Drugs on Human Performance and Behavior; October 9-13, 2017
The Center for Forensic Science Research & Education; Austin, TX

Medico – Legal. Biology and Basic Science, and Clinical Practice 1 – Physiology and Pharmacology: Cannabis Science and Medicine; June 15, 2017
University of Vermont College of Medicine Continuing Medical Education

International Association of Chemical Testing 2017 Conference; April 23-28, 2017
Colorado Springs, CO

The Drug Recognition Expert Program Demonstration Evaluation and Mock Court; April 7, 2016
Workshop instructed by Tracey Durbin, Missouri DRE/SFST State Coordinator, and Dr. Curt Harper, Toxicology Discipline Chief, AL Department of Forensic Sciences
IACT 2016 Conference, Orlando, FL

Expert Witness Testimony: Defense Against the Dark Arts; April 8, 2016
Workshop instructed by Jeremy Johnston, Idaho State Police
IACT 2016 Conference, Orlando, FL

International Association of Chemical Testing 2016 Conference; April 3-6, 2016
Orlando, FL

Cognitive Factors in Forensic Decision Making; February 22-23, 2016
Workshop instructed by Dr. Itiel Dror, Cognitive Consultants International Ltd.
Boston Police Department/Northeastern University; Boston, MA

Advanced Roadside Impaired Driving Enforcement (ARIDE); December 15-16, 2015
Vermont Police Academy; Pittsford, VT

The Robert F. Borkenstein Course on Alcohol and Highway Safety: Testing, Research, and Litigation; December 6-11, 2015
Indiana University; Bloomington, IN

DataMaster DMT Supervisor Training; October 8, 2015
Vermont Forensic Laboratory; Waterbury, VT

DUI Enforcement Certification Course, Datamaster DMT Operator Training; June 1-3, 2015
Vermont Police Academy; Pittsford, VT

Intoximeters Intox DMT Technical Training; September 21-23, 2015
Dan Dunsworth, Technical Services Supervisor of Intoximeters, Inc.

Measurement Uncertainty: The Basics; September 24-25, 2015
Lecture and workshop instructed by Dr. Suzanne Bell of West Virginia University

Ethics and Data Integrity for Environmental Labs; August 26, 2015
Association of Public Health Labs, Online

Publications & Presentations

Validation of Aqueous Ethanol Solutions as Certified Reference Materials used with the Intox DMT. Presented at IACT 2017 Conference, Colorado Springs, CO; April 27, 2017.

Headspace GC/FID Analysis of Ethanol in Whole Blood: Instrument Validation and Quality Control. Presented at IACT 2016 Conference, Orlando, FL; April 6, 2016.

Your Brain on Drugs: The Pharmacology, Physiology, and Chemistry of Drugs. Guest Lecture for PSY-4010-J01 Biological Psychology. Johnson State College, Johnson, VT; October 24, 2015.

Research thesis publication: Garrett, AD; **Patlak, DJ**; Gunn, LE; Brodeur, AN; Grgicak, CM. *Exploring the Potential of a Wet-Vacuum Collection System for DNA Recovery*. Journal of Forensic Identification. 2014; Volume 64, Issue 5: 429-448.

Patlak DJ. Evaluation of Wet Vacuum Collection versus Traditional Methods for Collection of Biological Crime Scene Samples. Presented at NEAFS Annual Meeting Poster Session, Saratoga Springs NY; November 14, 2012.

**Professional
Membership**

American Board of Forensic Toxicology; Diplomate in Forensic Toxicology – October 2019

International Association of Chemical Testing; Member since April 2016

Northeastern Association of Forensic Scientists; Member since October 2016

**Awards &
Honors**

Provost's Scholarship from Boston University School of Medicine, Division of Graduate Medical Sciences – 2011-2013

Graduated *Cum Laude*; University of Vermont – January 2010

Inducted into Phi Beta Kappa honor society; Alpha of Vermont – 2008

Dean's List Member; University of Vermont – September 2005-2009