

# Lyndsey Lowe

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## Forensic Toxicologist

Washington State Patrol Toxicology Laboratory  
2203 Airport Way S, Ste. 360  
Seattle, Washington 98134  
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### Employment

- ❖ **Washington State Patrol Toxicology Laboratory** Seattle, WA  
Forensic Scientist 3, November 2014-Present  
Analyze and quantify biological specimen for the presence of ethanol and drugs. Interpret analytical results for attorneys, medical examiners, and law enforcement agencies. Prepare and certify simulator solutions used in the Breath Test Program for use in the BAC Datamaster. Provide testimony to the effects of alcohol and drugs on human performance. Perform maintenance on instruments (GC-MS, GC-FID, LC-MS, LC-MSMS, Olympus, HS-GC).
- ❖ **Washington State Patrol Toxicology Laboratory** Seattle, WA  
Forensic Scientist 2, November 2013-October 2014
- ❖ **Washington State Patrol Toxicology Laboratory** Seattle, WA  
Forensic Scientist I, April 2013-November 2013
- ❖ **Church and Dwight, Inc.** Vancouver, WA  
HPLC Chemist, July 2012-April 2013  
Responsible for testing vitamin levels in gummy, raw, and blend products. Responsible for setting up and maintaining the HPLC, from changing columns and lamps, emptying waste, troubleshooting instrument parameters, to diagnosing chromatographic problems. Used LIMS to report data and to locate pertinent information.
- ❖ **Eastern Washington University** Cheney, WA  
Chemistry Lab TA, January 2012-June 2012  
Supervised general chemistry labs ranging in modeling, density, titrations, calorimetry. Maintained a safe environment and provided assistance when needed.
- ❖ **Washington State Patrol Crime Lab** Vancouver, WA  
Intern- Chemistry Section, July 2011-September 2011  
Maintained and progressed a drug standards library for FTIR, GC-MS, GC-FID. Made SAM dilutions, performed passive absorption elution, and compared TICs. Performed base extractions of controlled substances. Executed arson studies and compared the components of and classified about 55 fresh and old solutions. Performed burn studies by comparing 10 liquids/semi-liquids by miscibility, ignitability, and passive absorption elution. Developed a study for determining if the fuel patch for a sky lantern contained ignitable liquids by performing passive absorption elution and solvent extractions.
- ❖ **Eastern Washington University** Cheney, WA  
PLUS Facilitator, September 2010-June 2011  
Tutored college students in general chemistry by presenting study skills, group exercises, worksheets, and practice tests.

## Education

- ❖ **Bachelor of Science- Chemistry, focus in Forensic Science**, Magna cum laude  
Eastern Washington University, June 2012 Cheney, WA

## Awards, Honors, Activities:

- Outstanding Forensic Science Graduate- 2012
- Eastern Washington University Dean's List- 2008-2012
- Inland Empire Forensic Science Society: Vice President (2009-2010), President (2010-2011),  
Activities Coordinator (2011-2012)
- Eastern Washington University Honors Program- 2008-2009

## Publications (peer reviewed)

- ❖ **Lowe, Lyndsey M.**, Brianna L. Peterson, Fiona J. Couper. A Case Review of the First Analytically Confirmed 25I-NBOMe-Related Death in Washington State. *Journal of Analytical Toxicology* 2015; 39: 668-671.

## Training

- ❖ **Certificate Program in Forensic Toxicology** presented by The Center for Forensic Science Research and Education. Willow Grove, PA/Seattle, WA. January-May 2015.
- ❖ **Drinking Lab** presented by the Washington State Patrol at the WSP Academy. Shelton, WA. January 9, 2015.
- ❖ **Advances in Forensics and Toxicology eSeminar** presented by Separation Sciences. November 4 and 6, 2014.
- ❖ **Role of Toxicology in Criminal Investigations** presentation given at Criminalistics class at Tacoma WSP. Tacoma, WA. June 4, 2014.
- ❖ **American Academy of Forensic Sciences 66<sup>th</sup> Annual Meeting** Seattle, WA. February 17-22, 2014.
- ❖ **Drinking Lab** presented by the Washington State Patrol at the Criminal Justice Training Center. Burien, WA. December 20, 2013.
- ❖ **Ride Along** with the Seattle Police Department (Officer Heller). November 15, 2013.
- ❖ **Robert F. Borkenstein Course on The Effects of Drugs on Human Performance and Behavior** presented by Robert F. Borkenstein Center for Studies of Law in Action at Indiana University. Sacramento, CA. November 3-8, 2013.
- ❖ **DRE Certifications** presented by Seattle Police Department. Seattle, WA. September 19, 2013.
- ❖ **Overview of Horizontal Gaze Nystagmus** presented by Dr. Karl Citek. Vancouver, WA. September 4, 2013.
- ❖ **Autopsy Viewing** held at King County Medical Examiner's Office by Dr. Aldo Fusaro. Seattle, WA. July 22, 2013.
- ❖ **A.R.I.D.E: Advanced Roadside Impaired Driving Enforcement** presented by the National Highway Traffic Safety Administration. Bellevue, WA. June 20-21, 2013.
- ❖ **Updates in Toxicology** presented by Dr. Fiona Couper at King County Medical Examiner's Office. Seattle, WA. May 22, 2013.
- ❖ **Robert F. Borkenstein Course on Alcohol and Highway Safety: Testing, Research, and Litigation** presented by Robert F. Borkenstein Center for Studies of Law in Action at Indiana University. Bloomington, IN. May 12-17, 2013.

❖ **What Makes a Credible Witness?** presented by Elaine Pagliaro, The Evidence Conference webinar series. April 25, 2013.