



# Idaho State Police Forensic Services



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Forensic Scientist II  
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## Education:

Bachelor of Science in Biochemistry, University of Oklahoma 2017

## Experience:

04/2021-Present Forensic Scientist II  
Idaho State Police Forensic Services  
Duties: Controlled Substances and Breath Alcohol Calibrations

01/2020-04/2021 Forensic Scientist I  
Idaho State Police Forensic Services  
Duties: Controlled Substances and Breath Alcohol Calibrations

04/2019-12/2019 Forensic Scientist I  
Contractor with ProPeople Staffing Services working for Idaho State  
Police Forensic Services  
Duties: Controlled Substances

08/2017-03/2019 Intern  
Ada County Sheriff's Office Crime Laboratory  
Duties: Shadowed in controlled substances, crime scenes, and biology.  
Performed research in presumptive tests for blood.

## Certification:

11/2022-present American Board of Criminalistics- Drug Analysis

## Testimony:

I have testified regarding controlled substance analysis in Idaho district court in the following counties: Benewah, Bonner, Idaho, Kootenai, Nez Perce, and Shoshone.

## Continuing Education; Association Meetings; Conferences:

09/2018 Northwest Association of Forensic Scientists Annual Conference; Boise, ID  
Extraction Failures from Poorly Supported Semi-Automatic Pistols (8hrs)  
Adobe Photoshop for Forensic Scientists (4hrs)  
General Session (12hrs)

<https://isp.idaho.gov/forensics>  
EQUAL OPPORTUNITY EMPLOYER

## **Katherine (Katie) Maxfield**

- 09/2019 HPLC Training by Agilent; Couer d'Alene, ID  
General Operation and Cannabis Specific Method (12hrs)
- 12/2019 GCMS Maintenance by Agilent; Meridian, ID  
Operation, maintenance, and evaluation of GCMS (11 hrs)
- 08/2020 Open Lab Software by Agilent; Webinars  
General Operation (2hrs)  
Data Analysis (2 hrs)  
Intelligent Reporting (1.5 hrs)
- 10/2020 California Association of Criminalists Alcohol Impairment Workshop; Virtual  
Driving Impairment and SFSTs (4hrs)  
Controlled Drinking Studies and Calculations (4hrs)
- 04/2021 International Association for Chemical Testing (IACT) Conference; Virtual  
Quality Assurance and Uncertainty of Measurement: Fundamentals and Implementation (4hrs)  
Recommended Specimens, Scope, Cutoffs, and Strategies for DUI/D Testing & the Impact of Stop Testing Limits (4hrs)  
Development and Validation: Plan, Execute, Succeed! (4hrs)  
Alcohol Concentration Extrapolation (4hrs)  
Better Than Managing: Generating Positive Results Through Effective Leadership (4hrs)
- 06/2021 HPLC and Open Lab Software by Agilent; Meridian, ID  
General Operation and Custom Report Generation (12hrs)
- 12/2021 The Robert F. Borkenstein Course on Alcohol & Highway Safety: Testing, Research, & Litigation; Bloomington, IN  
History of Alcohol Testing; Alcohol Chemistry, Pharmacology, and Physiology; The Measurement of Alcohol in Blood and Breath; Courtroom Testimony about Alcohol; and more (40hrs)
- 01/2022 Reliable Quantification of THC in Chocolate and Identifying Fentanyl Analogs and Illicit Drugs using MassHunter by Center for Forensic Science Research and Education (CFSRE) and Agilent; Virtual  
How to extract cannabinoids cleanly from difficult matrixes and how to use MassHunter Unknowns Analysis to assist in coelution and identifying structural similarities (1.5hrs)
- 02/2022 MassHunter Unknowns Analysis for the Forensic Chemist Part I and Part II by Agilent; Virtual  
How to use MassHunter Unknowns Analysis for forensic data analysis to include deconvolution and background subtraction (2.75hrs)
- 03/2022 Lifeloc FC20 and FC20BT Factory Training; Wheat Ridge, CO  
Factory tour, instrument history, and how the instrument works (~12hrs)
- 07/2022 Internal Auditor Training by Seaglass Training; Virtual  
Review of ISO/IEC 17025 (2017), A2LA R221, and ISO 19011 (20hrs)
- 10/2022 Southwestern Association of Forensic Scientists (SWAFS) Annual Conference; Henderson, NV  
Comparing EtOH in 6mL and 10 mL grey top tubes statistically (4hrs)  
Quality in Forensic Chemistry (4hrs)  
Clean It Up: Extraction and Isolation Techniques for Seized Drugs (4hrs)  
Methamphetamine Quantitation using the Magritek Spinsolve NMR (2hrs)  
Cultivating Justice: How to Grow New Cannabis Methods for Your Lab (2hrs)  
Nevada Board of Pharmacy (1hr)  
Las Vegas Community Impact Initiative - Overdose Response Team (1hr)

**Katherine (Katie) Maxfield**

02/2023 Basic Bloodstain Pattern Recognition Course; Meridian, ID (40 hrs)

Presented by Craig C. Moore with See More Forensics. The course covered the fundamentals of bloodstain pattern analysis to include the history and theory behind the analysis.

**Validations:**

09/2019-03/2020 Assisted in the method development and validation of determining total THC by HPLC. Duties included running temperature studies, running practice samples, and developing the report template for the data.

**Teaching; Presentations:**

09/2018 The Effects of Bluestar on Presumptive Tests for Blood  
Northwest Association of Forensic Scientists Annual Conference, Boise, ID  
10/2019 Presumptive Tests for Blood and Careers in Forensic Science  
Women in Science at North Idaho College, Coeur d'Alene, ID

**Research; Publications:**

Martin, Katherine. "The Effects of Bluestar on Presumptive Tests for Blood." *Crime Scene*, vol. 44, no. 1, Feb. 2019, pp. 8–13.

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