



Idaho State Police Forensic Services



Taylor Maichak

Forensic Scientist III – DNA Technical Lead
Idaho State Police Forensic Services
700 S. Stratford Dr. Meridian, ID 83642
208-884-7173

Education:

2016 Marshall University
M.S. in Forensic Science
Emphases in DNA Analysis, Forensic Chemistry, and Crime Scene Investigation

2014 Oklahoma State University
B.S. in Microbiology/Cell & Molecular Biology
Option in Microbial Pathogenesis

Experience:

6/2020 – Present Idaho State Police Forensic Services
Forensic Scientist III – DNA Technical Lead

3/2018 – 6/2020 Sorenson Forensics
Forensic DNA Analyst II, Priority Lab

1/2018-3/2018 Sorenson Forensics
Lead DNA Analyst

4/2016-1/2018 Sorenson Forensics
Forensic DNA Analyst I

Testimony:

2023 Lemhi County, ID
Bingham County, ID
Bannock County, ID
Canyon County, ID

2022 Bannock County, ID
Canyon County, ID
Twin Falls County, ID

2021 Bethel, AK
Kauai, HI

<https://isp.idaho.gov/forensics>

EQUAL OPPORTUNITY EMPLOYER

Revised 11/13/2023

Taylor Maichak

2020 Washington D.C.
Washington County, UT

2019 Salt Lake County, UT

Certifications:

2020-Present American Board of Criminalistics – Molecular Biology Diplomate

Continuing Education; Association Meetings; Conferences:

2023 9th Annual Workshop on STRMix™ Implementation and Casework Approach
75th Annual American Academy of Forensic Sciences Conference

2022 Forensic Relationship Statistics Training
Internal Auditor Training
2022 CODIS Conference
8th Annual Workshop on STRMix™ Implementation and Casework Approach

2021 2021 CODIS Conference
32nd International Symposium on Human Identification: DNA
7th Annual Workshop on STRMix™ Implementation and Casework Approach

2020 31st International Symposium on Human Identification: DNA
2020 CODIS Conference

2019 Preparing for Expert Witness Testimony on Probabilistic Genotyping
Quality Assurance via Rapid Validation

2018 SNP Webinar Series: Investigative DNA Testing Implementation
Implementing Next Generation Sequencing for Forensic DNA Analysis
3500 Series Instrument Overview and Comparison with 3130 Series
Assessment of Y chromosome Degradation Level Using the Investigator
Quantiplex Pro RGQ Kit
Using Forensics & Biometrics on Human Trafficking
STRmix 4-day Regional Workshop

2017 2017 NIJ R&D Series: Forensic Biology & DNA – Part I
Introduction to Likelihood Ratios and Probabilistic Genotyping
Next Generation Sequencing Feasibility and Guidance Study for Forensic
DNA
Qiacube and EZ1 Advanced XL Overview
The Evolution of SNPs as a Forensic Marker
Familial DNA Searching: Understanding the Current State of Affairs

2016 SoftGenetics GeneMarker HID: A User's Perspective
Developmental Validation of the MiSeq FGx Forensic Genomic System
Looking Ahead: The National Sexual Assault Policy Symposium
Introduction to Real-Time PCR: Basic Principles and Chemistries

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Applications of Emerging Technologies NIST & 2016 NIG R&D Series:
Forensic Biology & DNA

Validations Completed:

- 2022 PowerPlex® Fusion 6C System Amplification Kit on the Applied Biosystems® 3500 Genetic Analyzer using GeneMapper® ID-X v1.6 Analysis Software in conjunction with Promega GI Validation Services
- 2021 PowerPlex® Fusion System Amplification Kit on the Applied Biosystems® 3500 Genetic Analyzer using GeneMapper® ID-X v1.6 Analysis Software in conjunction with Promega GI Validation Services
- 2015 The Internal Validation of Life Technologies® Quantifiler® Trio and Qiagen® Investigator® Quantiplex HYres DNA Quantification Kits

Teaching; Presentations:

- 2015 The Internal Validation of Life Technologies® Quantifiler® Trio and Qiagen® Investigator® Quantiplex HYres DNA Quantification Kits, and a Comparative Analysis to Life Technologies® Quantifiler® Duo. Poster and Lecture, Marshall University.
- 2014 Laser Capture Microdissection: Methodology, Benefits, and Disadvantages for Forensic Use. Lecture, Marshall University.