



# 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:**

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

2021 Bethel, AK  
Kauai, HI

2020 Washington D.C.  
Washington County, UT

2019 Salt Lake County, UT

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

**EQUAL OPPORTUNITY EMPLOYER**

Revised 12/5/2022

## Taylor Maichak

### Certifications:

2020-Present American Board of Criminalistics – Molecular Biology Diplomate

### Continuing Education; Association Meetings; Conferences:

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

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

2020 31<sup>st</sup> 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  
Applications of Emerging Technologies NIST & 2016 NIG R&D Series:  
Forensic Biology & DNA

2015 67<sup>th</sup> Annual Scientific Meeting for American Academy of Forensic Sciences

### Validations Completed:

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

## Taylor Maichak

Internal Validation of STRmix™ V2.8 for the ISP Laboratory  
(Fusion 5C™ 3500) in conjunction with the Institute of Environmental  
Science and Research

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.

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