**Alaska Scientific Crime Detection Laboratory**

**Statement of Qualifications**

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| **Name** | Sherri L Hughes | **Date** | November 2020 |

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| **Job Title** | Forensic Scientist II |

**Indicate all disciplines in which you currently perform testing or calibration work according to the Scope of Accreditation:**

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| **☐** | **Drug Chemistry** | **☐** | **Toxicology - Testing** |
| **☐** | **Biology** | **☐** | **Firearms/Toolmarks** |
|  | **Latent Prints** |  | **Crime Scene** |
| **☐** | **Breath Alcohol (non-accredited discipline)** |

**For each discipline checked in the table above, list all categories in which you perform work:**

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| Latent Print Processing  Footwear Intelligence  Footwear Processing |

**Education:** List all higher academic institutions attended (list high school only if no college degree has been attained)**.**

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| Institution | Dates Attended | Major | Degree Completed |
| Greenville Technical College | 2004-2006 | Biotechnology | A.S. |
| Clemson University | 2006-2008 | Genetics | B.S. |
| Clemson University | 2009-2011 | Genetics | M.S. |

**Continuing Education:**  List formal coursework, conferences, workshops, in-service and other training received applicable to past and current forensic related positions.

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| Course Title | Source of Training | Date(s) of Training |
| Basic Footwear Comparisons | 105th IAI Conference; Ron Smith & Assoc; Jon Byrd | August 3, 2021 |
| Footwear Examination Workshop | 105th IAI Conference; William Bodziak | August 3, 2021 |
| Forensic Image Comparison | 105th IAI Conference; FBI | August 4, 2021 |
| Orientation and Smart Searching | 105th IAI Conference; Ron Smith & Assoc; Mike Jordahl | August 4, 2021 |
| Tire Examination Workshop | 105th IAI Conference; William Bodziak | August 5, 2021 |
| Footwear Examination Training | State of Alaska Scientific Crime Detection Lab | May 2020-present |
| Footwear Intelligence Training | State of Alaska Scientific Crime Detection Lab | January 2020-May 2020 |
| Latent Print Processing Training | State of Alaska Scientific Crime Detection Lab | July-October 2019 |
| Fingerprint Processing on Difficult Surfaces (1hr) | Texas Forensic Science Academy (online) | September 13, 2019 |
| Methods of Instruction (40 hours) | State of Alaska Department of Corrections | September 3-9, 2019 |
| DNA Mixture Analysis with ArmedXpert | Niche Vision Forensics, LLC at State of Alaska Crime Detection Laboratory | May 17-19, 2016 |
| 2016 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | February 2016 |
| Quantifiler Trio DNA Quantification and GlobalFiler PCR Amplification Kit Lecture & Teach back | Life Technology at State of Alaska Crime Detection Laboratory | March 3-5, 2015 |
| 2015 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | February 2016 |
| Hair Evaluation for DNA Analysis | West Virginia University (online) | September 2014 |
| Blood Stain Pattern Analysis I | Bevel Gardner & Associates at State of Alaska Crime Detection Laboratory | August 25-29, 2014 |
| Communication Skills, Report Writing and Courtroom Testimony for Forensic Analysis | NIJ (online) | August 2014 |
| Population Genetics and Statistics for Forensic Analysis | NIJ (online) | May 2014 |
| STR Data Analysis and Interpretation for Forensic Analysis | NIJ (online) | May 2014 |
| 2014 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | May 2014 |
| FBI New CODIS Administrator Training | 19th Annual National CODIS Conf.; Norman, OK | November 2013 |
| Promega Advanced Topics in Forensic Mixture Analysis: Statistics to Technology | International Symposium on Human Identification  Atlanta, GA | October 2013 |
| Quality Assurance Standard & Auditor Training | DOJ FBI CODIS division | June 2013 |
| 2013 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | April 2013 |
| 2012 Annual Review of DNA Data Accepted at NDIS | DOJ FBI CODIS division | January 2013 |
| CODIS 7.0 Training | DOJ FBI CODIS division | January 2013 |
| Promega Mixture Interpretation Workshop | International Symposium on Human Identification  Nashville, TN | October 2012 |
| Ethics in Forensic Science | West Virginia University (online) | October 2012 |
| Perspectives in Expert Testimony | West Virginia University (online) | July 2012 |
| Class III Police Officer Training | South Carolina Criminal Justice Academy | February 2012 |
| Emerging DNA Technology Training Workshop | Marshall University; Huntington, WV | Dec. 5-7, 2011 |
| President’s DNA Initiative, Advanced DNA Workshop | Marshall University; Huntington, WV | Nov. 14-17, 2011 |

**Testimony:** Complete the information below for testimony provided.

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| Discipline or Category of Testimony | Period of Time in Which Testimony Occurred | Approximate Number of Times Testified |
| DNA Screening | March 2017 (Kodiak), April 2017 (Juneau), November 2019 (Fairbanks) | 3 |
| Biology, Nuclear DNA | January 2019 (Anchorage), September 2019 (Greenville, SC) | 2 |

**Professional Affiliations:** List professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

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| Organization | Period of Membership | Offices or Positions Held/Dates |
| International Association for Identification | January 2020-present | Active Member |
| American Academy of Forensic Science (AAFS) | 2012-2014 | Trainee Affiliate |

**Employment History:** List all scientific or technical positions held, particularly those related to forensic science. **List current position first.** Add additional sections as necessary.

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| **Job Title** | Forensic Scientist II | **Tenure** | July 2020-Present |
| **Employer** | Department of Public Safety, State of Alaska Scientific Crime Detection Laboratory; Physical section | | |
| Provide a brief description of principal duties: | | | |
| Latent Print Processing: Process a variety of physical evidence for latent friction ridge detail using physical, chemical and photographic techniques. Ridge detail is developed, documented and digitally preserved for Latent Print Examination.  Footwear Intelligence: Search questioned footwear impressions against an online database of known footwear impressions to determine the make and model.  Trainings: Provide training/instruction to Forensic Scientists and Law Enforcement. | | | |

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| **Job Title** | Forensic Scientist I | **Tenure** | July 2019-July 2020 |
| **Employer** | Department of Public Safety, State of Alaska Scientific Crime Detection Laboratory; Physical section | | |
| Provide a brief description of principal duties: | | | |
| Latent Print Processing | | | |

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| **Job Title** | Research Technician II | **Tenure** | September 2019-November 2020 |
| **Employer** | University of Alaska Anchorage, Dr. Duddleston | | |
| Provide a brief description of principal duties: | | | |
| Work on various grant funded research projects as directed by PI, including but not limited to DNA/RNA extractions, qPCR, PCR, ordering | | | |
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| **Job Title** | Adjunct Instructor | **Tenure** | September 2018-as needed |
| **Employer** | University of Alaska Anchorage | | |
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| Provide lectures and laboratory training for Experiential Learning for Genetics & Cell Biology | | | |

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| **Job Title** | Forensic Scientist III | **Tenure** | December 2015-September 2017 |
| **Employer** | Department of Public Safety, State of Alaska Scientific Crime Detection Laboratory; DNA Section | | |
| Provide a brief description of principal duties: | | | |
| DNA Screening, DNA Analysis, DNA CODIS Database | | | |

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| **Job Title** | Forensic Scientist II | **Tenure** | August 2014-December 2015 |
| **Employer** | Department of Public Safety, State of Alaska Scientific Crime Detection Laboratory; DNA Section | | |
| Provide a brief description of principal duties: | | | |
| DNA Screening, DNA CODIS Database | | | |

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| **Job Title** | DNA Analyst, CODIS Administrator | **Tenure** | August 2011-July 2014 |
| **Employer** | Greenville County DPS Forensics | | |
| Provide a brief description of principal duties: | | | |
| Biological Screening, DNA Analysis, Maintenance and Supervision of CODIS Database | | | |

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| **Job Title** | Graduate Research Scientist | **Tenure** | August 2009-August 2011 |
| **Employer** | Clemson University Genetics & Biochemistry Department | | |
| Provide a brief description of principal duties: | | | |
| Research and reporting on DNA Methylation in QTL chilling regions in *Prunus persica* | | | |

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| **Job Title** | Genetics Lab Lecturer | **Tenure** | Summers 2011 |
| **Employer** | Greenville County DPS Forensics | | |
| Provide a brief description of principal duties: | | | |
| Biological Screening, DNA Analysis, Maintenance and Supervision of CODIS Database | | | |

**Other Qualifications:** List below all personal certifications identifying the issuing organization and the dates; all scientific publications and/or presentations you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualifications.

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| Law Enforcement Training Provided: 10/2020 – Crime Scene Photography, Physical Evidence collection, Footwear/Tire tracks, Latent Prints, ALET Academy, Sitka AK (32 hrs)  \*CTGN International Symposium on Genomics-Based Breeding in Forest Trees, UCDavis, August 2011 (Poster)  DNA Methylation Profiles Differ Between High and Low Chill Vegetative Buds in (*Prunus Persica* L. Batsch) trees  \*Plant and Animal Genome Conference, San Diego, January 2011 (poster)  Dynamic Pattern of DNA Methylation During Chill Hour Accumulation in Leaf Buds of High and Low Chill Peach Tree Individuals  \*8th Annual Ecological Genomics Symposium, Kansas State, November 2010 (poster)  DNA Methylation Profiles Differ Between Low & High Chill Peach (*Prunus persica* L.) Trees  \*Research in Progress Seminar, Clemson University, September 2010 (presentation)  From Genetics to Epigenetics for Chilling Requirement Control in *Prunus persica*  \*Senior Research Conference, Clemson University, December 2008 (presentation)  Genetic Resources to Understanding the Suppression of supernodulation combined with molecular Analysis of a Floral Phenotype in  *Medicago truncatula* |