

Kirk DeLeeuw

Biographical Information & CV

Mr. DeLeeuw is a highly regarded and accomplished Forensic Biology and DNA Consultant/Expert both nationally and internationally. He has over two decades of dedicated experience in molecular biology and forensic science and is well respected worldwide. His career is defined by a deep technical mastery of DNA analysis, including specialized expertise in interpreting complex multi-contributor samples using Probabilistic Genotyping Software (PGS) such as STRmix.

Mr. DeLeeuw is licensed by the Texas Forensic Science Commission. He likewise has a comprehensive understanding of FBI Quality Assurance Standards (QAS) and ISO/IEC 17025 accreditation requirements. He applies the standards through meticulous auditing of case files, bench notes, and high-volume electronic data files and images.

His extensive professional background includes high-level roles across private and public sectors. As a Forensic DNA Analyst at DNA Labs International, Mr. DeLeeuw analyzed casework from across the United States and internationally, utilizing advanced PCR/STR-based methods and various chemistries. Prior to this, he served for nearly 20 years as a Forensic Scientist for the Michigan State Police, where he performed biology and DNA casework, responded to crime scenes for evidence collection, and acted as an Assistant to the Local CODIS Administrator. Currently, Mr. DeLeeuw also serves as an Application Consultant for Forensic Advantage Systems, leading the implementation of LIMS applications and translating complex business requirements into technical workflows.

Beyond the laboratory, Mr. DeLeeuw is a seasoned Expert Witness, qualified to provide testimony in Body Fluid Identification/Serology and DNA Analysis across numerous jurisdictions. He has provided sworn affidavits and oral testimony in federal, circuit, and district courts in many states including Washington D.C., and internationally in the Royal Turks and Caicos Islands. His ability to translate sophisticated molecular biology data into clear, accessible testimony ensures that scientific integrity remains paramount during both civil and criminal litigations.

Mr. DeLeeuw maintains technical proficiency through a rigorous commitment to continuing education, frequently attending the International Symposium on Human Identification and National CODIS Conferences. His hands-on experience spans a wide array of instrumentation, including Applied Biosystems Genetic Analyzers and Hamilton robotic workstations, as well as various quantification and amplification kits. This combination of technical expertise, regulatory knowledge, and proven courtroom experience allows him to provide unparalleled oversight and analysis in the field of forensic DNA as outlined in the Curriculum Vitae attached below.

KIRK DELEEUEW

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Curriculum Vitae

Education:

<u>Institution</u>	<u>Major</u>	<u>Degree Completed</u>
University of Michigan	Biology	Bachelor of Science

Employment History:

- (1)

Job Title: Forensic Biology and DNA Consultant

Employer: Riley Welch LaPorte & Associates Forensic Laboratories

Principle Duties: As a Biology and DNA Consultant, I provide comprehensive technical oversight and expert analysis for complex criminal and civil litigation. My work bridges the gap between sophisticated laboratory data and the courtroom, ensuring that DNA evidence is interpreted with scientific integrity and precision. Performing Forensic Case Reviews, meticulous auditing of case files, bench notes, and electronic data to verify that laboratory protocols adhere to FBI Quality Assurance Standards (QAS) and ISO/IEC 17025 accreditation requirements. I have expertise in evaluating multi-contributor samples, including the use of Probabilistic Genotyping Software (PGS) such as STRmix, to determine the statistical weight of inclusion or exclusion. Finally, I can provide expert testimony, translating high-level molecular biology into clear, accessible testimony. I provide sworn affidavits and oral testimony regarding DNA persistence, degradation, comparisons, and conclusions.

August 2020 – Present
- (2)

Job Title: Application Consultant

Employer: Forensic Advantage Systems

Principle Duties: Lead end-to-end implementations of Forensic Advantage LIMS applications, translating complex business requirements into scalable technical workflows. Drive customer success by conducting onsite and virtual training for cross-functional teams, ensuring high product adoption and technical proficiency. Act as a Strategic Advisor during the elicitation process, aligning product capabilities with client needs to overcome technical obstacles and mitigate project risk. Facilitate User Acceptance Testing (UAT) by guiding clients through data validation and use-case testing to ensure solution integrity.

May 2026 – Present



- (3) **Job Title:** Forensic DNA Analyst *September 2022 – March 2026*
Employer: DNA Labs International
Principle Duties: Responsible for analyzing forensic casework samples submitted by agencies throughout the Continental United States and Outside the Continental United States. Perform DNA Analysis through PCR/STR based methods utilizing various chemistries to include data analysis, interpretation, comparisons, statistical calculations through probabilistic genotyping or manual methods, prepare laboratory reports for various agencies, and provide testimony of finds as an expert witness as needed. Also involved with genetic analyzer data review and troubleshooting.
- (4) **Job Title:** Forensic Scientist 12 *August 2003 – September 2022*
Employer: Michigan State Police – Forensic Science Division
Principle Duties: Perform Biology casework and courtroom testimony. Perform DNA casework and courtroom testimony. Perform crime scene response, evidence collection, and evidence processing techniques. Involved in implementation and maintenance of a LIMS system (Laboratory Information Management System) for the Forensic Science Division. Perform duties as Assistant to the Local Grand Rapids CODIS Administrator for maintaining the FBI's Combined DNA Index System database. Manage the return, review, and distribution of cases that are outsourced to various private laboratories.
- (5) **Title:** Research Scientist *June 2001 – August 2003*
Employer: Covance Incorporation – Kalamazoo, MI
Principle Duties: Coordinate, plan and implement pharmacokinetic and food diet studies. Prepare test solutions and drugs for various pharmacy studies. Administer dosage to subjects and organize / perform timed sample collections.
- (6) **Title:** Research Technician *April 2000 – June 2001*
Employer: MPI Research – Mattawan, MI
Principle Duties: Worked with a team to run a variety of small animal reproductive health studies. Administer dosage to subjects and organize / perform timed sample collections. Performed daily measurements depending on the needs of the specific study.

Certification:

Forensic Analyst – Discipline: Forensic Biology/DNA *August 2020 to Present*
Licensed by Texas Forensic Science Commission (License #: 0001689)

Forensic Lab Competencies:

Quantification Kits:

PowerQuant® System - Promega
Quantifiler™ Trio DNA Quantification Kit - Thermo Fisher Scientific

PCR Amplification Kits:

PowerPlex® Fusion 5C - Promega
PowerPlex® Fusion 6C – Promega
PowerPlex® Fusion 6C Direct Amplification – Promega
GlobalFiler™ - Thermo Fisher Scientific
GlobalFiler™ Direct Amplification - Thermo Fisher Scientific
Investigator 24plex QS - Qiagen

Forensic Lab Competencies Continued:

Instrumentation:

Maxwell® RSC 48 Instrument - Promega
Tecan Freedom EVO® 150 Robotic Workstation
QIACube Connect and BioRobot EZ1 – Qiagen
Aurora Biomed Versa 1100
Hamilton Microlab STAR
Hamilton Nimbus Presto System
Applied Biosystems Model 7000 Real-time Thermalcycler
Applied Biosystems Model 7500 Real-time Thermalcycler
Genetic Analyzer 3100 - ABI
Genetic Analyzer 3500xL - ABI

Software:

Forensic Advantage LIMS
STACS DNA LIMS
Starfruit LIMS
Helix LIMS
GeneMapper ID-X™ Forensic Data Analysis Software
CODIS Software
STRmix® Probabilistic Genotyping Software

Professional Affiliation:

American Academy of Forensic Sciences - Criminalists Section

February 2005 to Present

Midwestern Association of Forensic Scientists (MAFS) - Biology

June 2005 to June 2008

Courtroom Testimony:

Provide expert witness testimony and court preparation for attorney's offices during trial and pre-trial stages. Qualified as an expert witness in the areas of Body Fluid Identification/Serology and DNA Analysis in:

Florida

Circuit Court in Alachua County

Idaho

District Court in Canyon County

Illinois

Federal Court in Northern United States District Court

Kentucky

District Court in Kenton County



Courtroom Testimony Continued:

Michigan

Circuit and District Courts in Alger, Allegan, Alpena, Arenac, Barry, Berrien, Branch, Calhoun, Clinton, Eaton, Genesee, Grand Traverse, Hillsdale, Ingham, Ionia, Jackson, Kalamazoo, Kent, Manistee, Montcalm, Muskegon, Newaygo, Lapeer, Lenawee, Monroe, Oscoda, Ottawa, Saginaw, Van Buren, Washtenaw, and Wayne Counties

Federal Courts in Eastern and Western United States District Courts

New Hampshire

Superior Court in Strafford County

Tennessee

Criminal Court – Division 7 in Shelby County

Texas

District Court in Tarrant County

Washington D.C.

Superior Court of the District of Columbia

International

Royal Turks and Caicos Islands - Supreme Court

Conferences/Meetings:

AFDAA Winter Symposium: Communication, Comprehension, and Complexity –
A Symposium on Presenting DNA Evidence (Virtual – 2026)
Human Identification Solutions Conference - ThermoFisher Scientific (Virtual - 2025)
Human Identification Solutions Conference - ThermoFisher Scientific (Virtual - 2024)
Human Identification Solutions Conference - ThermoFisher Scientific (Virtual - 2023)
8th Annual Workshop on STRmix: Implementation/Casework Approach (Virtual - 2022)
27th Annual National CODIS Conference (Virtual - November 2021)
7th Annual Workshop on STRmix: Implementation/Casework Approach (Virtual - 2021)
26th Annual National CODIS Conference (Virtual - November 2020)
31st International Symposium on Human Identification (Virtual - 2020)
28th International Symposium on Human Identification (September 2017)
21st Annual National CODIS Conference (November 2015)
20th Annual National CODIS Conference (November 2014)
19th Annual National CODIS Conference (November 2013)
24th International Symposium on Human Identification (September 2013)
18th Annual National CODIS Conference (November 2012)
17th Annual National CODIS Conference (November 2011)
American Academy of Forensic Science Conference (2011)
9th Annual Advanced DNA Technical Workshop, Bode Technology (May 2010)

Conferences/Meetings Continued:

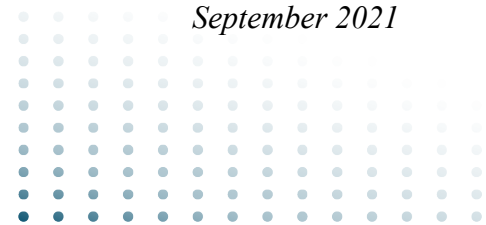
16th Annual National CODIS Conference (November 2010)
15th Annual National CODIS Conference (November 2009)
14th Annual National CODIS Conference (November 2008)
13th Annual National CODIS Conference (November 2007)
18th International Symposium on Human Identification (October 2007)
17th International Symposium on Human Identification (October 2006)
Midwestern Association of Forensic Scientists Meeting (May 2005)
Midwestern Association of Forensic Scientists Meeting (May 2004)

Continuing Education/Training:

<i>March 2026</i>	<u>AFDAA Winter Symposium 2026: Communication, Comprehension, and Complexity – A Symposium on Presenting DNA Evidence</u> Association of Forensic DNA Analysts and Administrators - Virtual
<i>November 2025</i>	<u>From Complexity to Clarity - Mixtures Meet Their Match</u> Thermo Fisher Scientific HID University - Dr. Michael Coble and Dr. Chantal Roth - Virtual
<i>October 2025</i>	<u>Activity Levels in Forensic Science: Practice, Challenges, and Courtroom Experience</u> PHF Science – Dr. John Buckleton; Lynne Garcia; Jon Millman; Tim Kalafut; Duncan Taylor et. al. - Virtual
<i>September 2025</i>	<u>Forensic Investigative Genetic Genealogy Technologies: Choosing the Right One for Your Case</u> Cristina Servidio (DNA Labs International) / Sally Reese (DNA Labs International) - Virtual
<i>July 2025</i>	<u>ASCLD FRC - Lightning Talk - Beyond the Match: The Rise of Activity-Level Reasoning at Trial Confirmation</u> Tim Kalafut (Sam Houston State University) / Simone Gittelsohn (George Washington University) / John Buckleton (ESR) - Virtual
<i>May 2025</i>	<u>Human Identification Solutions Conference</u> ThermoFisher Scientific - Virtual
<i>February 2025</i>	<u>Smith vs. Arizona: The Decision, the Forensic Fallout, and the Legal Path Forward</u> Ted Hunt (Senior Policy Advisor - FBI Laboratory Division) - Virtual
<i>June 2024</i>	<u>Human Identification Solutions Conference</u> ThermoFisher Scientific - Virtual

Continuing Education/Training (cont.):

<i>May 2023</i>	<u>Human Identification Solutions Conference</u> ThermoFisher Scientific - Virtual
<i>May 2023</i>	<u>An Elephant Walks into a Bar...Testimony Guidance to Avoid Transposing the Conditional</u> DNA Labs International / John Buckleton / Dr. Michael Coble – Virtual
<i>January 2023</i>	<u>Expanding the Power of Forensic DNA Databases</u> Forensic Magazine - Virtual
<i>January 2023</i>	<u>ISFG 2022 Panel Discussion on the Evolution of Forensic Genetics</u> Forensic Magazine - Virtual
<i>January 2023</i>	<u>Decoding the Laboratory Options for Genetic Genealogy</u> Promega - Virtual
<i>January 2023</i>	<u>Closing the Genealogy Gap: From Extraction to Prosecution</u> Promega - Virtual
<i>January 2023</i>	<u>Adapting Next-Generation Sequencing (NGS) for Forensics is Not a Paradigm Shift</u> UNT Heath Science Center - Virtual
<i>January 2023</i>	<u>Human Factor in Forensic Science Practice</u> The Forensic Technology Center of Excellence - Virtual
<i>January 2023</i>	<u>Comparison of SpermX and Conventional Differential Extractions</u> The Forensic Technology Center of Excellence - Virtual
<i>January 2023</i>	<u>Breakthrough in Forensic DNA Analysis Using Next-Generation Sequencing</u> Forensic Magazine - Virtual
<i>June 2022</i>	<u>8th Annual Workshop on STRmix™: Implementation and Casework Approach</u> Virtual
<i>May 2022</i>	<u>STRmix™: Advanced Training</u> ESR Jo-Anne Bright and Hannah Kelly - Virtual
<i>November 2021</i>	<u>27th Annual National CODIS Conference</u> Virtual
<i>September 2021</i>	<u>Biology Unit Technical Meeting</u> Michigan State Police, Virtual



<i>April 2021</i>	<u>7th Annual Workshop on STRmix™: Implementation and Casework Approach</u> Virtual
<i>November 2020</i>	<u>26th Annual National CODIS Conference</u> Virtual
<i>September 2020</i>	<u>31st International Symposium on Human Identification</u> Virtual
<i>June 2020</i>	<u>Outsource Technical Reviewer Training</u> Texas Department of Public Safety – Online
<i>May 2020</i>	<u>Quantifiler - Human / IDPlus / Investigator 24Plex QS</u> Texas Department of Public Safety – Online
<i>April 2020</i>	<u>2020 DNA QAS Auditor Training Modules 1 through 9 and Final Assessment</u> FBI Virtual Academy – Online
<i>January 2020</i>	<u>DNA QAS Audit – Indiana State Police – Indianapolis Laboratory</u> Indianapolis, IN
<i>September 2019</i>	<u>Biology Unit Technical Meeting</u> Michigan State Police, Gaylord, MI
<i>April 2019</i>	<u>Statistical Genetics and the Mechanisms of Probabilistic Genotyping</u> The Forensic Technology Center of Excellence – Online
<i>April 2019</i>	<u>The YHRD Database: How It Works and How to Use It in Casework</u> The Forensic Technology Center of Excellence – Online
<i>April 2019</i>	<u>Rapid DNA's Role in Disaster Victim Identification</u> The Forensic Technology Center of Excellence – Online
<i>April 2019</i>	<u>The Elements of DNA Profile Interpretation and Probabilistic Genotyping</u> The Forensic Technology Center of Excellence – Online
<i>March 2019</i>	<u>QIASymphony Data Reviewer Training</u> Michigan State Police, Grand Rapids, MI
<i>January 2019</i>	<u>DNA QAS Audit – Centre of Forensic Sciences – Toronto Laboratory</u> Toronto, Canada



<i>November 2018</i>	<u>Crime-Lite ALS Training</u> Foster+Freeman, Grand Rapids, MI
<i>October 2018</i>	<u>New SWGDAM Recommendations on Communicating Likelihood Ratios</u> The Forensic Technology Center of Excellence – Online
<i>October 2018</i>	<u>Adapting NGS for forensics is not a paradigm shift</u> Thermo Fisher – Online
<i>October 2018</i>	<u>Mixtures, Microhaps, DNA Modeling, Oh My!</u> The Forensic Technology Center of Excellence – Online
<i>October 2018</i>	<u>When Medical Conditions Muddle Forensic Casework</u> Promega – Online
<i>October 2018</i>	<u>A Reflection on Nearly Three Years of Probabilistic Genotyping</u> Promega – Online
<i>September 2018</i>	<u>Biology Unit Technical Meeting</u> Michigan State Police, Lansing, MI
<i>August 2018</i>	<u>DNA QAS Audit – Texas Department of Public Safety– Weslaco Laboratory</u> Weslaco, TX
<i>November 2017</i>	<u>Biology Unit Technical Meeting</u> Michigan State Police, Northville, MI
<i>September 2017</i>	<u>28th International Symposium on Human Identification</u> Seattle, WA
<i>October 2016</i>	<u>DNA QAS Audit – Hennepin County Sheriff</u> Minneapolis, MN
<i>September 2016</i>	<u>Biology Unit Technical Meeting</u> Michigan State Police, Lansing, MI
<i>November 2015</i>	<u>21st Annual National CODIS Conference</u> Norman, OK
<i>April 2015</i>	<u>STRmix Training Workshop</u> ESR Team: John Buckleton / JoAnne Bright / Stuart Cooper, Lansing, MI
<i>March 2015</i>	<u>Armed Xpert – DNA Mixture Analysis</u> NicheVision Forensics, Lansing, M



<i>November 2014</i>	<u>20th Annual National CODIS Conference</u> Norman, OK
<i>September 2014</i>	<u>Biology Unit Technical Meeting</u> Michigan State Police, Lansing, MI
<i>June 2014</i>	<u>Excavation of Decomposed Human Remains</u> Michigan State University – Forensic Anthropology Department, Dr. Todd Fenton / Dr. Bill Lovis
<i>November 2013</i>	<u>19th Annual National CODIS Conference</u> Norman, OK
<i>September 2013</i>	<u>24th International Symposium on Human Identification</u> Atlanta, GA
<i>June 2013</i>	<u>Forensic Leadership Academy</u> West Virginia University – Center for Executive Education, Joyce Heams / Dean Gialamas, Lansing, MI
<i>May 2013</i>	<u>Biology Unit Technical Meeting</u> Michigan State Police, Frankenmuth, MI
<i>November 2012</i>	<u>18th Annual National CODIS Conference</u> Norman, OK
<i>September 2012</i>	<u>Biology Unit Technical Meeting</u> Michigan State Police, Lansing, MI
<i>March 2012</i>	<u>Advanced Bloodstain Pattern Analysis Workshop</u> Noslow Forensic Consultations, Toby Wolson
<i>January 2012</i>	<u>CODIS 7.0 Instructor Lead Training</u> FBI – CODIS Unit Nashville, TN
<i>January 2012</i>	<u>CODIS 7.0 Computer Based Training</u> FBI – CODIS Unit Grand Rapids, MI
<i>November 2011</i>	<u>17th Annual National CODIS Conference</u> Jacksonville, FL
<i>September 2011</i>	<u>Biology Unit Technical Meeting</u> Michigan State Police, Lansing, MI
<i>June 2011</i>	<u>HID Future Trends in Forensic DNA Technology Seminar Series</u> Applied Biosystems, Lisa Calandro Chicago, IL
<i>June 2011</i>	<u>Crime Scene Reconstruction I</u>

Bevel, Gardner and Associates, Tom Bevel and Iris Dalley

May 2011

Mixture Interpretation: Principles Protocols Practice
Michigan State Police, John Butler, Robin Cotton, Charlotte Word,
Catherine Grgicak, Lansing, MI

February 2011

American Academy of Forensic Sciences Meeting
Chicago, IL

September 2010

Biology Unit Technical Meeting
Michigan State Police, Thompsonville, MI

May 2010

9th Annual Advanced DNA Technical Workshop
Bode Technology, Amelia Island, FL

November 2009

15th Annual National CODIS Conference
Washington D.C.

May 2009

Future Trends in Forensic DNA Technology Seminar Series
Applied Biosystems, Lisa Calandro Chicago, IL

March 2009

DNA Auditor Training (QAS)
FBI – CODIS Unit, Heather Seubert

March 2009

Training for Maxwell 16, PowerPlex 16, Y-STRs, and Hamilton Robotics
Michigan State Police, Various Instructors

February 2009

Forensic Y-STR Analysis
Sorenson Forensics, Del Price

February 2009

Population Statistics and Forensic DNA Analysis
Sorenson Forensics, Craig Nolde

February 2009

Use of Plexor HY and AB 7500 Real-Time PCR System
Workshop sponsored by Michigan State Police and George Carmody

December 2008

Population Statistics and Forensic DNA Analysis
Workshop sponsored by Michigan State Police and George Carmody

December 2008

Basic Bloodstain Pattern Analysis Workshop
Noslow Forensic Consultations, Toby Wolson

November 2008

14th Annual National CODIS Conference
Washington D.C.



<i>May 2008</i>	<u>FSS-I3 Expert Systems</u> Promega, Kimberly Huston
<i>April 2008</i>	<u>Applied Biosystems 3130 Genetic Analyzer Instrument Install Training</u> Applied Biosystems, Catherine Caballero
<i>March 2008</i>	<u>Process Mapping</u> Michigan State Police, Julie French and Joseph Cirafesi
<i>January 2008</i>	<u>CODIS Software Training</u> FBI – CODIS Unit, Meghan Carlin
<i>December 2007</i>	<u>DNA Auditor Training (QAS)</u> FBI – CODIS Unit, Heather Seubert
<i>November 2007</i>	<u>13th Annual National CODIS Conference</u> San Francisco, CA
<i>March 2007</i>	<u>Applied Biosystems 3130 Genetic Analyzer and GeneMapper ID Software Training</u> Applied Biosystems, Catherine Caballero
<i>January 2007</i>	<u>Mixture Statistics Workshop</u> National Institute of Forensic Science Operations, Dr. Kevin McElfresh
<i>October 2006</i>	<u>Hair Examination for DNA Analysts</u> West Virginia University – Online Course
<i>September 2006</i>	<u>17th International Symposium on Human Identification</u> Nashville, TN
<i>September 2005</i>	<u>Midwestern Association of Forensic Scientists Meeting</u> St. Louis, MO
<i>November 2004</i>	<u>Basic ABI Prism 3100 or 3100-Avant Genetic Analyzer Training</u> Applied Biosystems, Catherine Caballero
<i>September 2004</i>	<u>Midwestern Association of Forensic Scientists Meeting</u> Orlando, FL
<i>October 2004</i>	<u>Value Stream Mapping</u> General Motors, Larry Ott and various GM experts on the value stream mapping process



March 2005

ABI 7000 Real Time PCR Training
Applied Biosystems, Catherine Caballero

January 2005

Crime Scene Search, Evidence Collection, and Processing
Michigan State Police, Glenn Moore, Christine Stepelton, and Jim Pierson

December 2004

Expert Witness School
Michigan State Police, Thomas Riley and Michelle Dunkerley

