Forensic Science Consultants, Inc.

14450 Kentfield Place Poway, CA 92064 USA

Tel: 858-883-4065 [O] 415-672-3514 [C] lamqde@gmail.com www.qdexams.com Linton A. Mohammed, Ph.D., D-ABFDE Forensic Document Examiner

Diplomate: American Board of Forensic Document Examiners Diploma in Document Examination - Forensic Science Society (England) American Society of Questioned Document Examiners (Life Member & Past-President) American Academy of Forensic Sciences (Fellow) Chartered Society of Forensic Sciences (Fellow)

Linton A. Mohammed, Ph.D., D-ABFDE Forensic Document Examiner

CURRICULUM VITAE

EDUCATION

Ph.D. (Human Biosciences)

La Trobe University, Melbourne, Australia, 2012 Thesis: "*Elucidating spatial and dynamic features to discriminate between signature disguise and signature forgery behavior*" Supervisors: Assoc. Prof. Doug Rogers and Dr. Bryan Found

Master of Forensic Sciences

National University, San Diego, CA, 2005

Bachelor of Science (General) [Honors]

University of the West Indies, St. Augustine, Trinidad & Tobago, 1984

PROFESSIONAL CERTIFICATIONS

- Certificate of Qualification in Forensic Document Examination (No. 298) *American Board of Forensic Document Examiners, Inc.,* 1998 (re-certified every 5 years since 1998 to present).
- Diploma in Document Examination *Chartered Society of Forensic Sciences*, 1996 (formerly The Forensic Science Society). (renewed every 5 years since 1996 to present).

WORK EXPERIENCE

Forensic Science Consultants, Inc., 01/2012 – present dba Associated Document Examiners, 10/1997 – 09/2010 Poway, CA Duties: Forensic Document Examination, expert testimony; research; management.

San Diego County Sheriff's Department Regional Crime Laboratory, 08/1996-10/2010.

San Diego, CA Senior Forensic Document Examiner, (2002 – 2010) Forensic Document Examiner, (1996 – 2002) Duties: Conducted examinations in the most complex cases involving: signatures, handwriting, typewriting, machine printing, commercial printing, photocopies, hand stamps, ink, paper, indented impressions, binding materials; restoration and decipherment of alterations, erasures, and obliterations.

Provided training and mentorship for junior examiners, and training for attorneys and investigators.

Provided expert testimony in courts of law.

Laboratory of the Government Chemist, 07/1993 - 07/1996

Teddington, Middlesex, England Forensic Document Examiner

Caribbean Institute of Forensic Investigations Ltd., 06/1992 – 07/1993

Forensic Document Examiner Trinidad, West Indies

Trinidad and Tobago Forensic Science Center, 01/1989 – 06/1992

Forensic Document Examiner; Safety Officer Trinidad, West Indies

Trinidad and Tobago Forensic Science Center, 12/1986 – 12/1988

Chemist 1

Two-year full-time training program in Document Examination. (December 1986-December 1988) at the Trinidad and Tobago Forensic Science Center, Port of Spain, Trinidad. Mr. Robert Fawcett (Staff Sergeant [retired], Royal Canadian Mounted Police) conducted the training, which included the examination of: signatures, handwriting, typewriting, machine printing, commercial printing, photocopies, hand stamps, ink, paper, indented impressions, binding materials; restoration of alterations, erasures, and obliterations, photography, and court testimony.

TESTIMONY EXPERIENCE

Testified over 250 times as an expert witness in Forensic Document Examination in USA (Federal & State courts, depositions), England (High Court & Magistrates' Court), and the Caribbean (High Court & Magistrates' Court).

PROFESSIONAL AFFILIATIONS

- American Academy of Forensic Sciences
 - o Board of Directors, 2021-
 - o Executive Committee (Member at Large), 2023-
 - Fellow Questioned Documents Section.
 - o Member Academy Standards Board, 2017-2024 [Chair: 2020-2021].
 - Chair Luncheon Seminars, 2023.
 - Long Term Planning Committee, 2018-2021.
 - Chair Questioned Documents Section, 2016-2018.
 - Chair Inter-Disciplinary Symposium, 2018.
 - Co-Chair Inter-Disciplinary Symposium, 2017.
 - o Secretary Questioned Documents Section, 2014-2016.
 - Editorial Review Board Journal of Forensic Sciences (2005-2020).
- American Society of Questioned Document Examiners
 - President, 2010 2012
 - Vice-President, 2008 2010
 - o Treasurer, 2006 2008
 - Director, 2004 2006
 - o Annual Conference Program Chair, 2006, 2017, & 2022.
 - o Chair, Evaluation and Examination Committee, 2002 2006
 - Annual Conference Site Chair, 2002
 - Life Member (2021-); Member (1991 2021)
- Fellow Chartered Society of Forensic Sciences
- Member Canadian Society of Forensic Science

AWARDS

2022: Albert S. Osborn Award of Excellence – American Society of Questioned Document Examiners (created to recognize those individuals who have contributed above and beyond what is expected of a Society member).

2019: **Ordway Hilton Award** – American Academy of Forensic Sciences Questioned Documents Section (In Recognition of Outstanding Contributions to Forensic Document Examination).

2012: **New Horizon Award** – American Board of Forensic Document Examiners, Inc. (In Recognition of Exceptional Contributions in Scientific Research for the Advancement of Forensic Document Examination).

PUBLICATIONS

Books

Mohammed, L. (2019). *Forensic Examination of Signatures*. Academic Press/Elsevier.

Caligiuri, M. & Mohammed, L. (2012). *The Neuroscience of Handwriting: Applications for Forensic Document Examination.* Taylor & Francis: Boca Raton, FL.

Papers

- 1. Vaccarone, P., Mohammed, L. (2022). *Line Quality in Non-original Documents Expert Opinions and Conclusions*. Journal of the American Society of Questioned Document Examiners, Vol. 25, No. . pp. 9-19.
- 2. Dror, I., Scheer, K., Mohammed, L., MacLean, C., Cunningham, L. (2021). *Biasibility and Reliability of Forensic Document Examiners*. Forensic Science International, Vol. 318, January 2021, 110610.
- 3. Caligiuri, M., & Mohammed, L. (2019). *Signature Dynamics in Alzheimer's Disease*. Forensic Science International 302 (2019)109880.
- Ascicioglu, F., Tekin, T., Ozbek, N., Cevik, F., Ozcan, F., Mohammed, L. (2019). Prepared Disappearing Ink and Decipherment of Documents. J. Forens. Sci. doi: 10.1111/1556-4029.14084
- Sang, J., Mohammed, L., McClary, C. (2019). "The Future of Forensic Document Examination" in The Future of Forensic Science, D. Martell (Ed), Hoboken, NJ: John Wiley & Sons, Inc. pp. 121-157.
- 6. Caligiuri, M., Mohammed, L., Lanners, B., Hunter. G. (2018). *Kinematic Validation of FDE Determinations about Writership in Handwriting Examination: A preliminary study.* Journal of the American Society of Questioned Document Examiners, Vol, 21, No. 1.
- Mohammed, L., Found, B., Caligiuri, M., Rogers, D. (2015). Dynamic Characteristics of Signatures: Effects of Writer Style on Genuine and Simulated Signatures. Journal of Forensic Sciences, January 2015, Vol. 60, No.1.
- Mohammed L.A. (2013). *History of the Forensic Examination of Documents*. In: Siegel JA and Saukko PJ (eds.) Encyclopedia of Forensic Sciences, Second Edition, pp. 386-390. Waltham: Academic Press.
- 9. Caligiuri, M., Mohammed, L., Found, B., & Rogers, D. (2012). *Nonadherence to the Isochrony Principle in Forged Signatures*. Forensic Science International 223 (2012) 228–232.

- 10. Mohammed, L., Found, B., Caligiuri, M., Rogers, D. (2011). *The Dynamic Character of Disguise Behavior for Text-Based, Mixed, and Stylized Signatures.* J Forensic Sci, January 2011, Vol. 56, No. S1 pp. S136-141).
- 11. Mohammed, L., Ostrum, B. (2010). Using Adobe Photomerge[™] for Demonstrative Evidence, Journal of the American Society of Questioned Document Examiners, Vol. 13, No. 1.
- Mohammed, L.A. (2009). Alterations, Erasures, and Obliterations of Documents, in Wiley Encyclopedia of Forensic Science, Jamieson, A., Moenssens, A. (eds). John Wiley & Sons Ltd., Chichester, UK, pp. 128-134.
- Mohammed, L., Found, B., Rogers, D. (2008). Frequency of Signature Styles in San Diego County – Journal of the American Society of Questioned Document Examiners, Vol. 11 (1).
- 14. Mohammed, L., Richards, G. (2006). *Thinking Outside the Box* Journal of the American Society of Questioned Document Examiners, Vol. 9 (2).
- 15. Mohammed, L., Jenkinson, G. (2002). Association of counterfeit documents to a printing plate by means of half tone dots – Journal of the American Society of Questioned Document Examiners, Vol. 5 (1).
- Mohammed, L. (1999). Write-On[™]: A new tool for handwriting comparison -Journal of the American Society of Questioned Document Examiners, Vol. 2 (2).
- 17. Mohammed, L. (1999). An evaluation of documents produced by a highspeed, high-volume scanning process - Forensic Science Communications, Vol. 1 (3).
- Mohammed, L. (1998). Sequencing writing impressions and laser printing or ink- jet printing using the ESDA - Journal of the American Society of Questioned Document Examiners, Vol. 1 (1).
- 19. Mohammed, L. (1993). Signature disguise in Trinidad and Tobago Journal of the Forensic Science Society, Vol. 33 (1).

PRESENTATIONS

Workshops

- The Robert Durst Case: Revisiting Myth of Handprinting Examinations; The Neuroscience and Kinematics of Handwriting; Forensic Evaluation of the Fine and Subtle Elements of Signatures and Handwriting II; Genuine, Disguised, and Simulated Signatures.
 - Presented to Canadian Forensic Document Examiners at Algonquin College, Ottawa, Ontario, Canada 2023

- The Robert Durst Case: Revisiting Myth of Handprinting Examinations
 - Co-presented with Lloyd Cunningham at the Australasian Society of Forensic Document Examiners Inc., Conference, Melbourne Australia 2023.
- The Neuroscience and Kinematics of Handwriting
 - Co-presented with Prof. Michael Caligiuri at the Australasian Society of Forensic Document Examiners Inc., Conference, Melbourne, Australia 2023.
- Forensic Evaluation of the Fine and Subtle Elements of Signatures and Handwriting II
 - Co-presented with Lloyd Cunningham at the 14th Conference of the European Network of Forensic Handwriting Examiners (ENFHEX), Zagreb, Croatia 2022.
 - Co-presented with Lloyd Cunningham and Karen Nobles, American Academy of Forensic Sciences, Seattle, WA 2022.
- Special Topics In Disputed Document Testimony For The 21st Century
 - Co-presented with Lloyd Cunningham at the 80th Annual General Meeting of the American Society of Questioned Document Examiners, San Antonio, TX 2022.
- The Robert Durst Case: Revisiting Myths Of Handprinting Examinations
 - Co-presented with Lloyd Cunningham at the 80th Annual General Meeting of the American Society of Questioned Document Examiners, San Antonio, TX 2022.
- Fine and Subtle Elements of Signatures and Handwriting II
 - Co-presented with Karen J. Nobles and Lloyd Cunningham at the 74th Annual Conference of the American Academy of Forensic Science, Seattle, WA 2021.
 - Motor Control and Kinematics of Signatures and Handwriting • Presented at Inter Forensics, Iguassu Falls, PR, Brazil, 2021 (virtual).
- The Neuroscience and Kinematics of Handwriting
 - Workshop for Trainees and Junior Examiners: co-presented with Prof. Michael Caligiuri at the 79th Annual General Meeting of the American Society of Questioned Document Examiners, August 2021 (virtual).

- Development of an Evidence-Based Method for the Examination of Electronic Biodynamic Signatures
 - Co-presented with Veronica B. Dahir, Ph.D., Charles Edwards, Mara L. Merlino, Ph.D., Danica M. Ommen, Ph.D., & Brent Ostrum at the 13th European Network of Forensic Handwriting Examiners (ENFHEX) Conference and Business Meeting, June 2021 (virtual).
- Dispelling the Myths About the Forensic Examination of Handprinting
 - Co-presented with Brett Bishop, Katelyn Bruno, Lloyd Cunningham, and Linda Mitchell at the 72nd Annual Conference of the American Academy of Forensic Sciences, Anaheim, CA 2020.
 - Co-presented with Lloyd Cunningham at the Southwestern Association of Forensic Document Examiners (SWAFDE), Denver, CO 2019.
- Non-Destructive Examination of Inks (4 hours).
 - Co-presented with Peter V. Tytell and Derek J. Hammond at the 77th Annual General Meeting of the American Society of Questioned Document Examiners, Cary, NC 2019.
- The Forensic Examination of Genuine, Disguised, and Simulated Signatures with an Introduction to the Neuroscience and Kinematics of Handwriting
 - Presented at the Scottish Police Authority, Glasgow, Scotland 2018.
- The Forensic Examination of Original and Copied Signatures
 - Presented at The Midwestern Association of Forensic Sciences Conference, Cincinnati, OH 2017.
- Likelihood Approach and Document Examination: What For?
 - Co-presented with Liv Cadola and Tobin Tanaka at the 21st Triennial Meeting of the International Association of Forensic Sciences, Toronto, Canada 2017.
- The Examination of Skillfully Simulated Arabic Signatures
 - Presented at the 2nd Saudi International Conference on Forensic Medicine and Sciences, Riyadh, Kingdom of Saudi Arabia 2017.
- The Forensic Examination of Genuine, Disguised, and Simulated Signatures with an Introduction to Kinematics of Handwriting
 - Presented at the Midwestern Association of Forensic Sciences Conference, Branson, MO 2016.

- Genuine, Disguised, and Simulated Signatures; Kinematics of Handwriting; Formal and Informal Signatures
 - Co-presented with Lloyd Cunningham at the Australasian Society of Forensic Document Examiners, Inc., Sydney, Australia 2016.
- Document Examination in the USA
 - 2-day seminar presented at the Institute of Forensic Science Seminar, Beijing, China 2015.
- Are Fountain Pens Back in Vogue? Characteristics of Fountain Pen Writing and Aqueous Ink Analysis
 - Co-presented with Lloyd Cunningham, Dr. Valery Aginsky, & William J.
 Flynn at the 73rd Annual Meeting of the American Society of Questioned Document Examiners, Toronto, Canada 2015.
- The Forensic Examination of Genuine, Disguised, and Simulated Signatures with an introduction to the Neuroscience and Kinematics of Handwriting
 - 2-day workshop conducted at the II Brazilian Symposium on Forensic Science, Brazilia, Brazil 2015.
- The Examination of Skillfully Simulated Signatures
 - Presented at the 67th Annual Meeting of the American Academy of Forensic Sciences, Orlando, FL 2015.
 - Presented at Canada Border Services Forensic Laboratory, Ottawa, Canada, 2015.
- Skillful Freehand Signature Simulation
 - Co-presented with Lloyd Cunningham at the Joint Meeting of the American Society of Questioned Documents Examiners, Inc. & the Australasian Society of Forensic Document Examiners, Inc., Honolulu, HI 2014.
- Skillfully Simulated Signatures presented at the European Network of Forensic Handwriting Examiners (ENFHEX) meeting, Riga, Latvia, 2013.
- Signature Examination of Healthy and Impaired Writers
 - co-presented with Prof. Michael Caligiuri, UCSD, at the American Academy of Forensic Sciences Annual Conference, Washington DC, 2013.
- Neural Bases and Characteristics of Signature Formation in Writers with Dementia
 - Co-presented with Prof. Michael Caligiuri, UCSD, at the 70th Annual General Meeting of the American Society of Questioned Document Examiners, Charleston, SC 2012.

- Signature Examination Translating Basic Science into Practice
 - Co-presented with Prof. Michael Caligiuri, UCSD at the American Academy of Forensic Sciences Annual Conference, Seattle, WA 2010.
 - Co-presented with Prof. Michael Caligiuri, UCSD at the American Society of Questioned Document Examiners 68th Annual General Meeting, Victoria, BC, Canada, 2010.
- Genuine, Disguised, and Forged Signatures
 - Presented at the 1st Eurasian Congress on Forensic Sciences, Istanbul, Turkey, 2008.
 - Presented at the Victoria Forensic Science Centre, Melbourne, Australia, 2008.
 - Presented at the European Network of Forensic Handwriting Experts (ENFHEX) Meeting, Krakow, Poland, 2009.

Papers

- Mohammed, L. (2024). Bad Things Happen to Good Signatures. Presented at the 76th Annual Conference of the American Academy of Forensic Sciences, Denver, CO.
- 2. Mohammed, L. (2024). *Forensic Signature Examination: From Brain to Paper*. Virtually presented at Florida International University and John Jay College of Criminal Justice, CUNY.
- 3. Mohammed, L. (2023). *Forensic Signature Examination: From Brain to Paper*. Presented at the Centre for Forensic Science, University of Technology Sydney, Sydney, Australia.
- 4. Do, D., & Mohammed, L. (2019). An Evaluation of the Efficacy of an Electrostatic Detection Device as a Screening Tool for Latent Prints. Presented at the 1st Joint Meeting of the European Network of Forensic Handwriting Experts (ENFHEX) and the European Fingerprint Working Group (EFP-WG), Porto, Portugal; the 77th Annual General Meeting of the American Society of Questioned Document Examiners, Cary, NC; and the California State Division of the International Association for Identification Meeting, Burlingame, CA.
- Caligiuri, M., Ommen, D., Fuglsby, C., Saunders, C., Mohammed, L., Morris, J., Bird, C. (2019). *The Kinematic Modeling of FDE Writership Opinion*. Presented at the 1st Joint Meeting of the European Network of Forensic Handwriting Experts (ENFHEX), and the European Fingerprint Working Group (EFP-WG), Porto, Portugal; and the 77th Annual General Meeting of the American Society of Questioned Document Examiners, Cary, NC.

- Ommen, D., Fuglsby, C., Saunders, C., Caligiuri, M., Mohammed, L., Buscaglia, J. (2019). *Pairwise Comparison Scores for Handwritten Questioned Documents*. Presented at the American Academy of Forensic Sciences 71st Annual Scientific Meeting. Baltimore, MD.
- Fuglsby C, Mohammed L, Saunders C, Ommen D, Buscaglia J, Caligiuri M. (2018). FDE Conclusion Scales Parts 1 & 2: Reverend Bayes or Professor Kirk? Presented at the 76th Annual Conference of the American Society of Questioned Document Examiners, Park City, UT.
- 8. Ommen, D., Fuglsby, C., Saunders, C., Caligiuri, M., Mohammed, L., Buscaglia, J. (2018). *Pairwise Scores for Designing Handwritten Document Comparisons*. Poster presented at Forensics @NIST, Gaithersburg, MD.
- McClary, C., Mohammed, L., Caligiuri, M. (2018). An Analysis of Forensic Document Examiner (FDE) Aptitude in Determining Velocity Rates of Strokes. Presented at the American Academy of Forensic Sciences Conference, Seattle, WA.
- 10. Fuglsby, C., Mohammed, L., Buscaglia, J., Saunders, C. (2018). *Sufficiency and Complexity Factors in Handwriting Examination*. Presented at the Impression, Pattern, & Trace Evidence Symposium, Washington, DC.
- 11. Caligiuri, M., Mohammed, L. (2018). *Error Rates in Handwriting Examination*. Presented at the CSAFE Error Rates Symposium, Arlington, VA.
- 12. Caligiuri, M., Mohammed, L., Lanners, B. & Hunter G. (2017). *Kinematic Validation of FDE Determinations About Authorship in Handwriting Examination.* Presented at the 75th Annual Conference of the American Society of Questioned Document Examiners, San Diego, CA.
- Mohammed, L. (2017). *The Kinematics of Signatures and Handwriting*. Presented at the 2nd Saudi International Conference on Forensic Medicine and Sciences, Riyadh, Kingdom of Saudi Arabia.
- 14. Domitrovich, S. Judge, Seaman Kelly, J., Mohammed, L. (2017). A Review of the Almeciga V. Center for Investigative Reporting, Inc. Decision: Analysis and Counter-Analysis. Presented at the American Academy of Forensic Science Conference, New Orleans, LA.
- 15. Mohammed, L. (2016). *Document Examination not just handwriting*. Presented to the Young Forensic Scientists Forum, American Academy of Forensic Science Conference, Las Vegas, NV.
- 16. Mohammed, L. (2014). *Kinematic approach to signature analysis*. Presented at the 3rd. International Workshop on Automated Forensic Handwriting Analysis, Honolulu, HI.

- 17. Mohammed, L. (2013). *Handwriting stroke kinematics*. Presented at the Measurement Science and Standards in Forensic Handwriting Analysis conference, NIST, Gaithersburg, MD.
- 18. Mohammed, L., Found, B., Caligiuri, M., Rogers, D. (2012). *Dynamics of stroke direction in genuine and forged signatures*. Presented at the American Academy of Forensic Sciences Conference, Atlanta, GA.
- 19. Mohammed, L., Found, B., Caligiuri, M., Rogers, D. (2009). *Pen pressure as a discriminating feature between genuine and forged signatures* Presented at the International Graphonomics Society Conference, Dijon, France.
- 20. Mohammed, L., Found, B., Caligiuri, M, Rogers, D. (2009). *Can dynamic features be used to discriminate between genuine, auto-simulated, and simulated signatures?* Presented at the 61st Annual Conference of the American Academy of Forensic Sciences, Denver, CO.
- 21. Mohammed, L. (2008). Judicial challenges to expert witness testimony in the USA: The Daubert Trilogy -Presented at the 1st. Eurasian Congress on Forensic Sciences, Istanbul, Turkey.
- 22. Mohammed, L., Found, B., Rogers, D. (2008). *Genuine and disguised signatures* – *An empirical approach* - Presented at the 60th Annual Conference of the American Academy of Forensic Sciences, Washington, DC.
- 23. Mohammed, L., Williams, D. (2006). *Preparing demonstrative charts with the use of Adobe Photomerge*® Poster presentation, American Academy of Forensic Sciences, Seattle, WA.
- 24. Mohammed, L. (2005). *The Edge of Light*[™] *Scanner -* Presented at the American Academy of Forensic Sciences Conference, New Orleans, LA.
- 25. Mohammed, L. (2003). *Daubert and documents* Presented at theCalifornia Association of Criminalists Fall Conference, San Diego, CA.
- 26. Mohammed, L. (2003). A standardized training program for ForensicDocument Examiners – A proposal- Presented at the 61st Annual Conference of the American Society of Questioned Document Examiners, Baltimore, MD.
- 27. Mohammed, L. (2001). *Demonstrative evidence and multi-media technology -*Presented at the 59th Annual Conference of the American Society of Questioned Document Examiners, Des Moines, IA.
- 28. Mohammed, L., Buglio, J., Shafer, A. (2000). The influence of paper on the performance of the VSC-2000 spectrometer Presented at the 58th Annual Conference of the American Society of Questioned Document Examiners, Ottawa, Ontario, Canada.

- 29. Mohammed, L., Buglio, J. (2000). *The Association of Forensic Document Examiners* - Prepared for the 58th Annual Conference of the American Society of Questioned Document Examiners, Ottawa, Ontario, Canada.
- 30. Mohammed, L. (1992). *Cocaine and handwriting* presented at the 50th Annual Conference of the American Society of Questioned Document Examiners, Milwaukee, WI.
- 31. Mohammed, L. (1991). Signature disguise in Trinidad and Tobago presented at the 49th Annual Conference of the American Society of Questioned Document Examiners, Orlando, FL.

PROFESSIONAL ACTIVITIES

- Member-Research and Technology Transfer Advisory Board, Center for Statistics and Applications in Forensic Evidence (2022 -).
- Member Expert Working Group on Human Factors in Handwriting Examination, National Institute of Standards and Technology, 2015 – 2017.
- Member Physics/Pattern Scientific Area Committee within the National Institute of Standards and Technology Organization of Scientific Area Committees (NIST/OSAC), 2014 – 2016.
- Participant in the General Forensics Technology Working Group, National Institute of Justice, 2011.
- Participant in Scientific Working Group on Documents (SWGDOC), 2009 present.
- Editor Journal of the American Society of Questioned Document Examiners (2017-2023).
- Editorial Review Board Member:
 - Journal of Forensic Sciences (2005-2020).
 - Forensic Science and Technology (China) (2015-2020).
- Guest reviewer:
 - Journal of Forensic Sciences.
 - Forensic Science International.
 - Science & Justice.
 - Australian Journal of Forensic Science.
 - Egyptian Journal of Forensic Sciences.
 - Arab Journal of Forensic Sciences & Forensic Medicine.
 - IEEE Transactions on Cybernetics.
 - o International Journal on Document Analysis and Recognition.
 - Edorium Journals.

- Turkish Journal of Forensic Medicine.
- Arab Journal of Forensic Sciences & Forensic Medicine.
- International Graphonomics Society.

TEACHING EXPERIENCE

Oklahoma State University, 2006 – 2023: Adjunct Assistant Professor

Master of Forensic Sciences Administration and Graduate Certificate in Questioned Documents (online programs)

- Graduate course: Historical Aspects of Questioned Documents (4 hours per week during a semester)
- Graduate course: Technical Aspects of Questioned Documents (4 hours per week during a semester).

CONTINUING EDUCATION

- American Academy of Forensic Sciences, Denver, CO 2024
 - Statistics and Forensic Science: From Probability to Black Box Studies to Likelihood Ratios.
- American Academy of Forensic Sciences, Orlando, FL 2023
 - Report Writing in a New Rule 702 World-Handwriting Comparison Examination.
 - What Did the Lab Bench Say to the Court Bench? And What Did the Court Bench Hear?
- American Society of Questioned Document Examiners, Park City, UT 2018
 - Write-On 3.0 Workshop
 - The Greatest Forger to Ever Get Caught
- American Society of Questioned Document Examiners, San Diego, CA 2017
 - Forensic Science Research: Your Mission to Propose, Innovate, and Collaborate
 - Preparing a Digital Signature File for Forensic Analysis
 - Chinese Handwriting and Signatures Workshop: Hanzi Through the Eyes of the Forensic Document Examiner
 - Write or Wrong? Bias, Decision-Making, and the Use of Contextual Information in Forensic Document Examination
- American Society of Questioned Document Examiners, Pensacola, FL 2016
 - Measuring Frequency Occurrence in Handwriting and Hand Printing Characteristics
 - Sequence of Entries Determination New Approach to Additional Print
- American Society of Questioned Document Examiners, Toronto, Canada 2016
 Principles of Forensic Examination of Arabic Signatures

- American Society of Questioned Document Examiners, Honolulu, HI 2014
 Adobe Digital Media & Evidence
- American Academy of Forensic Sciences, Seattle, WA 2014
 - Science, Law, and the Inferential Process: The Epistemology of Scientific Conclusions
- National Institute of Standards and Technology (NIST), Gaithersburg, MD 2013.
 - Measurement Science and Standards in Forensic Handwriting Analysis
- American Academy of Forensic Sciences, Atlanta, GA 2012
 - Paper Fundamentals for Forensic Document Examiners
 - o Digital Photography for Forensic Document Examiners
- American Society of Questioned Document Examiners, Philadelphia, PA 2011
 - Printing Process Identification for Forensic Document Examiners
 - Using Adobe Photoshop in a QD Workflow
- American Society of Questioned Document Examiners, Victoria, BC, Canada 2010
 - o Electronic Recording and Analysis of Handwritten Signatures & Writing
- Cedar Crest College, Allentown, PA 2010
 - Multivariate Analysis for Forensic Scientists: Statistical Pattern Recognition for Physical Evidence Analysis and Chemometrics
- American Academy of Forensic Sciences, Denver, CO 2009
 - Estimation of Uncertainty Is Anyone Certain What This Means?
 - Security Documents before and After the Crime: REAL ID, Physical and Electronic Security Features, Developments in Commercial Printing Technology, and an Introduction to Counterfeit Link Analysis
- American Academy of Forensic Sciences, Washington DC 2008
 - The Applications of Color Analysis and Light Theory in the Forensic Examination of Documents Workshop
- American Society of Questioned Document Examiners, Portland, OR 2006
 Fine and Subtle Features of Llandwriting Workshop
 - Fine and Subtle Features of HandwritingWorkshop
 - Signature Workshop
- Southeastern Association of Forensic Document Examiners, Atlanta, GA 2006
 Disguised and Forged Signatures Workshop
- American Academy of Forensic Sciences, New Orleans, LA 2005
 - State of the Art Infrared and Ultraviolet Examinations of Documents by the Video Spectral Comparator
- California Criminalistics Institute, Sacramento, CA 2005
 Technical Writing for Criminalists

- American Board of Forensic Document Examiners, Las Vegas, NV 2004
 Daubert Seminar
- American Academy of Forensic Sciences, Chicago, IL 2002
 Note Taking for Forensic Document Examiners Workshop
- Rochester Institute of Technology, Rochester, NY 2002
 Printing Process Identification and Image Analysis for Forensic Document Examiners
- Limbic Systems, Inc., Bellingham, WA 2001:
 Measurement of Internal Consistencies Software (MICS)
- American Board of Forensic Document Examiners, Norcross, GA 2000:
 Canon Photocopier and Facsimile Training Workshop
- California Criminalistics Institute, Sacramento, CA 2000:
 Special Topics in Questioned Documents
- Southwestern Association of Forensic Document Examiners, Las Vegas, NV 1999:
 - Typewriter Examination & Classification Workshop
- American Board of Forensic Document Examiners, Las Vegas, NV 1998:
 Examination Techniques in Handwriting & Rubber Stamp Cases Seminar
- Canadian Society of Forensic Science 44th Annual Conference, Regina, Saskatchewan, Canada 1997:
 - Digital Image Processing Workshop
- California Criminalistics Institute, Sacramento, CA 1997:
 - Courtroom Presentation of Evidence
- American Society of Questioned Document Examiners 55th Annual Conference, Scottsdale, AZ 1997:
 Handwriting Workshop
- American Society of Questioned Document Examiners 51st Annual Conference, Ottawa, Canada 1993:
 - Laser Printer Workshop
 - Miscellaneous Document Examination Workshop
- American Society of Questioned Document Examiners 50th Annual Conference, Milwaukee, WI 1992:
 - Signature Workshop

- American Society of Questioned Document Examiners 49th Annual Conference, Orlando, FL 1991:
 - Canon Fax Workshop
 - Deposition Testimony Workshop
 - Expert Witness Workshop
 - Signature Comparison Workshop

March 18, 2024