

Curriculum Vitae
(Last Reviewed 5 AUG 2024)

Personal Information

Name: William R Oliver, MD, MS (Computer Science), MPA (Justice Administration)

Home Address:

1347 Grouse Court
Seymour, TN 37865
Private consultation email: consults@billoblog.com

Work Address (only checked intermittently since retirement)

Regional Forensic Center
2761 Sullins St
Knoxville, TN 37919
Voice: 865.215.8000
Fax: 865.215.8001
Work email: william.oliver@knoxcounty.org

Education

BS University of Oklahoma, Microbiology, 1978 (with highest onors)
MD Vanderbilt University School of Medicine, Medicine, 1982
MS University of North Carolina, Chapel Hill, Computer Science, 1990
MPA (Justice Administration) Columbus State University, Columbus, GA 2008

Formal Continuing Education Workshops/Courses:

Officer Basic Course, US Army Ft. Sam Houston, 1990
Officer Advanced Course US Army, Ft. Sam Houston, 1994
AFIP/FBI Forensic Pathology Course, 1993
AFIP/FBI Advanced Forensic Pathology Course, 1994
AFIP/UNM Forensic Anthropology Course 1993
AFIP Cytopathology Course, 1991
Advanced Visualization Systems (AVS) Visualization and Programming Courses I and II, 1995 IABPA/Metro Dade Bloodstain Pattern Analysis Course, 1996
OpenGL programming, SGI, 1998
AVS/Express Programming, 1998
Advanced AVS/Express Programming, 1999

ASQ Fundamentals of Quality Assurance, 1999
SANS computer security course: IP, 2000
SANS computer security course: firewall and perimeter defense, 2000
SANS intrusion incident handling, 2001
Georgia Law Enforcement Professional Management Program 2004-2005.

Employment History

(Note, from 1982 – 1990, I simultaneously worked on my residency, fellowship, and graduate degrees. I did this by taking leaves of absence from the residency when I received a scholarship or fellowship. Thus, the dates are intermingled.)

07/1982-06/1984

- Resident in Pathology, UNC-CH, North Carolina Memorial Hospital, Chapel Hill, NC

07/1984-06/1985

- Kenneth Brinkhous Fellow in Experimental Pathology, UNC-CH

07/1985-06/1986

- Fellow in Forensic Pathology and Assistant Chief Medical Examiner, UNC-CH

07/1986-06/1987

- Resident in Pathology, UNC-CH, NCMH, Chapel Hill, NC

07/1987-06/1988

- College of American Pathologists Research Scholar, CAP/UNC-CH

07/1988-06/1989

- National Research Service Award Fellow, NIH/UNC-CH

07/1989-06/1991 concurrently:

- Resident in Pathology, UNC-CH, NCMH, Chapel Hill, NC
- Orange County Medical Examiner, Orange County, NC

07/1991-07/1999 concurrently (US Army Active Duty):

- Deputy Medical Examiner, Office of the Armed Forces Medical Examiner, Armed Forces Institute of Pathology
- Staff Pathologist, Department of Biophysics and Cellular Pathology, AFIP
- Pathologist, 520th Theater Army Medical Laboratory-PROFIS
- Director, Scientific Computing Group/Network Administrator, AFIP

08/1999-09/2003 concurrently (US Army DOD Civilian):

- Staff Pathologist, Department of Cellular Pathology and Biophysics, Armed Forces Institute of Pathology
- Deputy Medical Examiner, Office of the Armed Forces Medical Examiner

- Liaison, AFIP-United States Army Soldier and Biological Chemical Command (SBCCOM) – for a few months prior to Second Gulf War
 - Director, Scientific Computing Group and Imaging Laboratory, AFIP
- 09/2003-10/2003
- Network Administrator, Department of Cellular Pathology and Biophysics, AFIP (civilian contractor).
- 10/2003-09/2008 concurrently:
- Director, NW Regional Medical Examiner Office, Georgia Bureau of Investigation, Summerville, GA
 - Graduate student (Master in Public Administration), Columbus State University, Columbus, GA
 - Network Administrator, Department of Biophysics, Armed Forces Institute of Pathology (civilian contractor)
 - Private consultant in Forensic Pathology
- 10/2008-2/2016 concurrently:
- Professor of Pathology, Director, Autopsy and Forensic Services, Department of Pathology and Laboratory Medicine, East Carolina University, Greenville, NC (until first retirement)
 - Network Administrator, Department of Biophysics, AFIP (until disestablishment in 2011)
 - Private consultant in Forensic Pathology
- 3/2016-4/2021 (Until second retirement)
- Assistant Medical Examiner, Knox County Regional Forensic Center, Knoxville, TN
 - Private Consultant in Forensic Pathology
- 4/2021-present
- Assistant Medical Examiner (part time, locum tenens), Knox County Regional Forensic Center, Knoxville, TN
 - Private Consultant in Forensic Pathology

Adjunct/Affiliate Appointments:

07/1991-present*: Adjunct Asst. Professor, Department of Pathology, University of North Carolina at Chapel Hill

04/2016-present: Affiliate Professor, Department of Pathology, East Carolina University

05/2016 - present: Affiliate Physician, Department of Pathology, U Tenn. Knoxville, TN

04/2018 – present*: Clinical Professor, Department of Pathology, U North Dakota

*These may have timed out. I haven't heard from them in over a year, and I haven't bothered to check.

Active Certification:

Anatomic and Clinical Pathology, 1991

Forensic Pathology, 1994

Recertification, Anatomic and Clinical Pathology, 2014

Lapsed Certification:

Advanced Computer Intrusion Incident Handling Analyst (SANS GCIH certificate 0324, expired 2008)

Certified Quality Auditor (ASQ) (expired 2005)

Medical Licensure:

North Carolina # 29786 Dates: 1985-present

Georgia # 53866 Dates: 2003-present

Virginia # 0101258346 Dates: 2015-present

Tennessee # 53851 Dates: 2016-present

Professional Societies:

American Society of Clinical Pathologists (ASCP)

Institute of Electrical and Electronic Engineers (IEEE)

American Academy of Forensic Science (AAFS)

National Association of Medical Examiners (NAME)

International Association for Identification (IAI)

Association of Old Crows (AOC) (this is an intel/military information warfare group)

College of American Pathologists (CAP)

Lapsed memberships:

American Society for Quality (ASQ)

Society of Motion Picture and Television Engineers (SMPTE)

International Society for Optical Engineering (SPIE)

American Association for the Advancement of Science (AAAS)

Association for Computing Machinery (ACM)

Professional Service:

Editorial Board, J Forensic Med Pathol, 2002 – present

Editorial Board, Academic Forensic Pathol 2011-2018

Editorial Board, Forensic Science, Medicine, and Pathol 2014-2018

Issue Editor, Acad Forens Pathol, June 2015

Reviewer, J Forensic Med Pathol, 2002-present

Reviewer, J Forensic Sciences, 2009-present
Reviewer, Forensic Science, Medicine, and Pathology, 2006, 2014
Reviewer, Academic Forensic Pathol, 2011-present
Reviewer, Homeland Security CEDAP grants, DHS FEMA, National Preparedness Directorate, 2007-2009
Reviewer, occasional, NIJ grant applications 2011-2022
Member standing NIJ grant review committee 2017-2021
Board of Directors, NAME, 2014-2019
Guest Handling Editor, Australian Journal of Forensic Sciences, 2021
Medical Consultant, National Law Enforcement Officers Memorial, Washington, DC 2021-present

Grants completed

National Institute of Justice 2012-DN-BX-K053, the Interpretation of Patterned Injuries in Medicolegal Death Investigation.

Committees and Similar Service:

Technical Committee: International Congress on Diagnostic Imaging and Child Abuse, Washington, DC. 1995
Technical Committee: Emerging Technologies in Law Enforcement 1996: Image Processing (SPIE LE96).
Executive Committee: Applied Imagery and Pattern Recognition Workshop (AIPR), 1998 – present (emeritus since the late 2000s)
Program Chair, Applied Imagery and Pattern Recognition Workshop, (www.aiprworkshop.org) 1999
Member, Executive Committee, FBI Scientific Working Group on Imaging Technologies (SWGIT), 1999-2014
Chair, Image Analysis Subcommittee, FBI SWGIT, 2001-2014
Segmentation/Registration toolkit development contract evaluation committee, National Library of Medicine, 2002, 2003
AFIP representative, Mass Fatality Management Group, SBCCOM, 2000 - 2003
Publicity Chair, AIPR, 2002 – 2006
Member, Core Bioterrorism Subcommittee, NAME, 2001 – 2010 Member, Standards Committee, NAME, 2006-2010
Member, Accreditation Committee, NAME, 2008-2010
Member, Ad Hoc Committee on Manner of Death Determination, NAME, 2008-2011
Member, Medical Examiner Independence Committee, 2011-2013
Member, Government Affairs Committee, NAME 2011-2020 Member, Ethics Committee, NAME 2020
Member, Website Committee, NAME, 2006-2008 Member, Social media committee, NAME 2018-2019 Chair, Website Committee, NAME 2014

Member, Chief Medical Panel, DOJ evaluation of electromuscular disruption technologies 2007- 2010
Member, Ad hoc final draft writing subcommittee, Chief Medical Panel, DOJ evaluation of electromuscular disruption technologies, 2009
Member, ITK software extension contract review committee, National Library of Medicine, 2010
Consultant/member NAME ethics committee (one case), 2013
Member, NIJ grant review panel 2012-2020.
Member, NIST Organization of Scientific Area Committees, Medicolegal Death Investigation (OSAC MDI), 2015-2020
Liaison, Human Factors Committee/OSAC MDI 2015-2020 Chair, Quality Control Subcommittee, OSAC MDI 2015-2020
Member AAFS standards committee on interpretation of patterned injuries, 2016, 2017
Invited participant, NIJ stakeholders needs assessment meeting 2018
Reviewer, NIJ assessment of scientific basis of bitemark evidence, 2019
Member, NIJ standing Coverdell Grant review panel, 2015-2022

Administrative Activities:

Director, Autopsy and Forensic Services, Brody School of Medicine at ECU, 2008-MAR, 2016
Member, Executive Committee, Dept. Pathology, Vidant/ECU, 2013-MAR, 2016
Member, Credentials Committee, Vidant/ECU, 2010-MAR, 2016
Member, Strategic Planning Committee, Department of Pathology, Vidant/ECU 2012-MAR 2016
Member, Service Line Committee, Vidant/ECU 2013-MAR, 2016
Member, Resident Selection Committee, Vidant/ECU 2010-2013
Moderator, Forensic Journal Club, Vidant/ECU, 2008-MAR, 2016
Pathology representative, Trauma Conference, Vidant/EVU, 2008-MAR, 2016
Knox County representative, Child Fatality Group, Anderson County, TN, 2016
Medical Examiner representative, Tennessee fatality database development group, 2018-2020

Teaching Activities:

FBI Academy (AFIP program) 1991-2000 (off and on, as I remember)
Various in-service lectures, most of which I've forgotten, either in the military or to local Coroners in the Georgia Bureau of Investigation, 1996-2008
Program Director and Lecturer, Forensic Fellowship, Vidant/ECU portion of 2015
Hands-on teaching of residents and fellows at autopsy, 2009-2021 (ECU 2009-2016,

UT Med 2016-2021)

In-service lecture, residents in Pathology, 2009-2016 Lecturer, Pathology informatics rotation, 2011, 2012

Teaching Rounds/Mortality Morbidity Conferences/Weekly rounds, etc. --GYN-Oncology, OB/GYN, Pathology, Pulmonary Medicine, ED/Trauma Surgery, and others as needed 2009-MAR 2016

Grand Rounds, ECU, Pathology, 2010, 2012, 2013 Grand Rounds, UNC-Chapel Hill, Pathology, 2011 Trauma service seminar, ECU 2012, 2013, 2014

Regional Death Investigation seminar, ECU, 2013, 2014, 2015

North Carolina County Medical Examiner Orientation/Training seminar 2015

U Tenn. forensic odontology/anthropology seminar, 2017-2021

Knoxville Police Department training, 2020

Rotary Club presentation, Sevier County TN, 2020

National Forensic Academy, UT Knoxville, 2016-2022

(See Presentations/Posters for specific topics)

Research Activities and Interests:

Image Processing in Forensic Pathology

Patterned Injury Analysis

Photomicrography

Computer Vision in Pathology

Morphometrics

Effect of politics and legal issues on practice patterns

Inference in Forensic Pathology

Publications:

Refereed journals and proceedings:

1. Daniel DG, Abernethy V, Oliver, WR. The relationship between beliefs about men's and women's roles in society and views on male sexual dysfunction in 135 women. *Soc. Psychiatry* 19(3):127-133,1984.
2. Daniel DG, Abernethy V, Oliver, WR. Correlations between female sex roles and attitudes toward male sexual dysfunction. *J Sex Marital Ther.* 1984 10(3):160-9, 1984.
3. Oliver, WR, Weiss, SF. Use of microcomputer for anatomic pathology data. *Arch Pathol Lab Med.* 109(1):9-10,1985 (letter).
4. Oliver, WR., Reddick, RL, Gillespie, GY, Siegal, GP. Juxtadrenal schwannoma: verification of the diagnosis by immunohistochemical and ultrastructural studies. *J. Surg. Oncol.* 30(4):259-268,1985.
5. Siegal, GP., Oliver, WR., Reinus, WR, Gilula LA, Foulkes MA, Kissane JM, Askin, FJ. Primary Ewing's sarcoma involving the bones of the head and neck. *Cancer* 60(11):2829- 40,1987.
6. Pizer, S, Oliver, WR, Bloomberg, SH. "Hierarchical figure-based shape description for medical imaging: Proceedings NATO Advanced Studies Institute on Mathematics and Computer Science in Medical Imaging, Springer Verlag.1986
7. Pizer, S. Oliver, WR, Bloomberg, SH. "Hierarchical shape description via the multiresolution symmetric axis transform" *IEEE Transactions on Pattern Analysis and Machine Intelligence* 9:505-511.1987.
8. Gauch J, Oliver, WR, Pizer S "Multiresolution shape descriptions and their applications in medical imaging." *Proceedings of the Xth International Conference on Information Processing in Medical Imaging (IPMI) Utrecht.*1988.
9. Oliver, WR "Cell locomotion as shape change" *Blood Cells* 15:334-343.1989.
10. Oliver, WR, Pizer, SM, Gardner, RB, Pryzwansky, KB. "Evaluation of cytologic deformation by boundary-driven energy minimization"." *Prog Clin Biol Res.* 1991;363:355-6
11. Oliver, WR, Chancellor S., Symon J., Cullip T., Soltys M, Rosenman J., Hellman R, Gormley W."Three-dimensional visualization of bullet path: verification by

computed radiography." J. Forensic Sciences. March, 1995

12. Oliver, WR, Boxwala, A., Rosenman J. "Image Processing in the Evaluation of Assault and Murder." Proceedings, Visualization and Biomedical Computing, SPIE vol:2359:319- 328,1994.
13. Boxwala, A. Oliver, WR, Rosenman, J. "Deforming Post-Mortem Radiograph Images to Reconstruct a Bullet Path through Stock CT data" Proceedings, Visualization in Biomedical Computing , SPIE vol 2359:385-391,1994.
14. Oliver, WR, Altschuler, B. "Image Processing and 3D visualization in the interpretation of patterned injury of the skin.". Proc. Investigative and Trial Image Processing, SPIE vol 2567, 1995, pp 193-202.
15. Stotts, D. Smith J. Dewan, P. Jeffay, K. Smith, FD, Smith, D. Weiss, S. Coggins, J, Oliver, WR. "A Patterned Injury Digital Library for Collaborative Forensic Medicine." Proceedings of Digital Libraries '94, 1994, pp 25-33.
16. Stotts, D. Smith, J. Jeffay K. Dewan, P. Smith D., Oliver, WR. Early Experience with the Repository for Patterned Injury Data. Proc. Investigative and Trial Image Processing, SPIE vol 2567, 1995,pp 249-260.
17. Stotts, D. et al. Early experience with the RPID. Proceedings, Digital Libraries 1995.pp 123-130.
18. Oliver, WR and Altschuler, B. Image Processing and 3D visualization in forensic pathologic examination. Proceedings, 1995 Conference on Applied Imagery and Pattern Recognition : Tools and Techniques for Modeling and Simulation, SPIE vol 2645, 56-60. 1995.
19. Altschuler, B, Oliver, WR, and Altschuler, M. Rapid 3-D Video/Laser and Digital Archiving with Immediate On-scene Feedback for 3-D Crime Scene/Mass Disaster Data Collection and Reconstruction. , Proc. 1996 Applied Imagery and Pattern Recognition : Tools and Techniques for Modeling and Simulation, SPIE vol 2645, 32-38. 1995
20. Becker, RL, Mikel UV, Oliver, WR, Sesterhenn IA. Enumeration of interphase chromosomes: Comparison of visual ISH and confocal FISH methods. Analyt Quant Cytolo Histol. 18:405-409,1996
21. Oliver, WR and Fritsch, DS. Towards a metric for patterned injury analysis. Proceedings, Investigative Image Processing, SPIE vol 2942, 52-63 1996.
22. Oliver, WR, Boxwala, A., Rosenman, J, Cullip T, Symon J, Wagner G. Three-

dimensional visualization and image processing in the evaluation of patterned injuries: The AFIP/UNC experience in the Rodney King case. Am J Forensic Med Pathol 18(1):1-10,.1997

23. Oliver, WR. Inference of three-dimensional structure from two-dimensional images of wounds. Proc. AIPR, SPIE vol 3240,251-260,1997.

24. Oliver, WR. An artificial life approach to color contrast enhancement of wound images. SPIE Emerging Technologies in Law Enforcement. SPIE vol 3576,165175,1998

25. Oliver, WR. Body Position determination by explosion simulation. Proc Applied Imagery and Pattern Recognition, SPIE vol 390: 85-91,1999.

26. Malkoff, D, Oliver W. Hyperspectral Imaging Applied To Forensic Medicine. Proc. SPIE Vol. 3920, p. 108-116. 2000

27. Oliver, WR, Baker, AM, Powell, JD, Cotone, C., Meeker, J. Estimation of Body Exposure to Explosion, Am J Forens Med Pathol 23(3):252-256,2002.

28. Oliver, WR, Potter, K, McLean, I, Fowler D, Downs J. "Mapping Retinal Hemorrhages with Magnetic Resonance Microscopy." Proc Intl. Soc. Mag. Reson. Med. 2003 11:880.

29. Thali MJ, Dirnhofer R, Becker R, Oliver W, Potter K 8.Is 'virtual histology' the next step after the 'virtual autopsy'? Magnetic resonance microscopy in forensic medicine. Magn Reson Imaging. 2004 Oct;22(8):1131-8

30. Oliver, WR Medicine Looks Back at Intelligence (Comment on "Modeling an Intelligence Profession on Medicine") International Journal of Intelligence and Counterintelligence. 2007 20(3): 564-566.

31. Patonay, Bryan and Oliver, WR "Can Birth Trauma Be Confused for Abuse?" J Forensic Sci. 2010 Jul;55(4):1123-5

32. Oliver WR. The Effect of Threat of Litigation on Forensic Pathologist Diagnostic Decision Making. Journal Forensic Medicine and Pathol. 2011 Dec;32(4):383-6

33. Oliver, WR. Photography considerations in autopsy practice Acad For Path 2011 1(1):52-81.

34. Oliver, WR. Methods of inference in forensic diagnosis . Acad For Path 2011 1(3):254- 275

35. Oliver WR, Leone L. Digital UV/IR photography for tattoo evaluation in mummified remains. *J Forensic Sci.* 2012 Jul;57(4):1134-6.
36. Oliver, WR. Intent in manner of death determination. *Acad For Path.* 2012 2(2):126- 137.
37. Luzi S, Melinek J, Oliver WR. Medical Examiner's independence is vital for the health of the American legal system. *Acad For Path* 2013(1):84-92.
38. Oliver, WR. The burden of bad metaphors: Putting blinders on how we think about gun violence (editorial). *Acad For Path* 2013(2):264-269.
39. Oliver WR. The ethics of external peer review. *Acad For Path* 2013(3):272-280.
40. Oliver, WR. Manner determination in forensic pathology. *Acad For Path.* 2014(4):480- 491
41. Oliver, WR, Moritz Revisited: Modern mistakes about how we think about forensic pathology. *Acad Forensic Pathol.* 2015(2):186-200.
42. Oliver, WR, Fudenberg J, Thomas L, Howe J. Cognitive bias in medicolegal death investigation. *Acad Forensic Pathol.* 2015(4):548-560.
43. Oliver, WR, Feng X. Forensic Pathologist Consensus in the Interpretation of Photographs of Patterned Injuries of the Skin. *J. Forens Sci* 2016 61(4):972-978
44. Oliver, WR Sources of lack of consensus in the Interpretation of Photographs of Patterned Injuries of the Skin. *J Forensic Sci.* 2017 May;62(3):674-680. doi: 10.1111/1556-4029.13322. Epub 2016 Dec 8.
45. Oliver, WR, Effect of clinical history on consensus in forensic pathology diagnosis. *J Forensic Sci.* 2017 Mar 26. doi: 10.1111/1556-4029.13449. [Epub ahead of print]
46. Oliver, WR. Commentary on: Lockhart JJ, Satya-Murti S. Diagnosing crime and diagnosing disease: bias reduction strategies in the forensic and clinical sciences. (letter) *J Forensic Sci* 2017;62(6):1534-41. *J Forensic Sci.* 2018 Mar;63(2):651-653
47. Oliver WR. Reply to Author's Response. (letter) *J Forensic Sci.* 2018 Mar;63(2):656
48. Oliver WR. Comment on Kukucka, Kassin, Zapf, and Dror Cognitive Bias and Blindness: A Global Survey of Forensic Science Examiners 2018 *J Appl Res Memory*

Cognition. 2018 7(1):161

49. Oliver WR. Comment on Dror, Kukucka, Kassin, and Zapf. When Expert Decision Making Goes Wrong. 2018 J Appl Res Memory Cognition 7(2):314-315.
50. Early CA, Gilliland MGF, Kelly KL, Oliver WR, Kragel PJ. Autopsy Standardized Mortality Review: A Pilot Study Offering a Methodology for Improved Patient Outcomes. *Acad Pathol*. 2019;6:2374289519826281. Published 2019 Feb 12. doi:10.1177/2374289519826281
51. Oliver, WR Comment on Cognitive bias research in forensic science: A systematic review. *Forens Sci Int* 2019 Jul 26:109898. doi: 10.1016/j.forsciint.2019.109898. [Epub ahead of print]
52. Peterson BL, Arnall M, Avedschmidt S, et al. Commentary on: Dror IE, Melinek J, Arden JL, Kukucka J, Hawkins S, Carter J, et al. Cognitive bias in forensic pathology decisions. 2021 Nov;66(6):2541-2544. doi: 10.1111/1556-4029.14843. Epub 2021 Sep 9.
53. Oliver W. Commentary on: Dror IE, Melinek J, Arden JL, Kukucka J, Hawkins S, Carter J, et al. Cognitive bias in forensic pathology decisions. *J Forensic Sci*. <https://doi.org/10.1111/1556-4029.14697>. Epub 2021 Feb 20
54. Peterson BL, Gill J, Oliver W. Peterson response to Author's Response. *J Forens Sci* 2021 Nov;66(6):2549-2552. doi: 10.1111/1556-4029.14849. Epub 2021 Sep 9
55. Estrada CA Oliver WR. Right atrial perforation in the setting of methamphetamine-associated cardiomyopathy. In prep. Accepted for presentation NAME 2024.

Non-refereed:

1. Interrante V, Oliver WR, Pizer SM Fuchs H. "Display Methods for greyscale, voxel-based data sets." in Three-Dimensional Confocal Microscopy: Volume Investigation of Biological Specimens. Evans JK, Mills JR, Trogadis JE (eds). Academic Press. 1994
2. Oliver, WR. Histogram Stretching or Histogram Equalization in Image Processing. Microscopy Today, 98(3),1998.
3. Oliver, WR. Image Processing in Forensic Medicine, Clinics in Laboratory Medicine, R. Froede, ed. 18(1):151-180,1998(chapter).
4. Oliver, WR, Image Processing and Scientific Misconduct. Microscopy Today, 98(4):12- 13,1998.
5. Bass, Cameron; Folk, Benny; Salzar, Robert; Davis, Martin; Harris, Rob; Rountree, Mark S.; Harcke, Ted; Rouse, Elizabeth; Oliver, Bill; Sanderson, Ellory. Development of a Test Methodology to Evaluate Mine Protective Footwear. DTIC Technical Report. DA433052 Dec 2004.
6. Bass, Cameron; Folk, Benny; Salzar, Robert; Davis, Martin; Harris, Rob; Rountree, Mark S.; Harcke, Ted; Rouse, Elizabeth; Oliver, Bill; Sanderson, Ellory. Development of a Test Methodology to Evaluate Mine Protective Footwear. DTIC Technical Report. ASC 2004 (24th Army Science Conference) Orlando, FL, 29 NOV 2004.
7. Nolte, K, et al. A Medical Examiners, Coroners, and Biological Terrorism: A Guidebook for Surveillance and Case Management. Centers for Disease Control and Prevention, MMWR, June 11 2004, 55 (RR08):1-27
8. National Institute of Justice, Study of Deaths Following Electro-Muscular Disruption: Interim Report NIJ 2008
9. K. Potter, W.R. Oliver and M.J. Thali, "Virtual histology by magnetic resonance microscopy." In The Virtopsy Approach: 3D Optical and Radiological Scanning and Reconstruction in Forensic Medicine, Michael J. Thali and Richard Dirnhofer (eds.) CRC Press 2009
10. Oliver, WR. Image processing and analysis for evidentiary purposes. In Bitemark Evidence: A Color Atlas and Text, 2nd Edition Robert BJ Dorion, ed.CRC Press 2011
11. National Institute of Justice, Study of Deaths Following Electro-Muscular

Disruption (final report), NIJ 2011

12. Melinek J, Thomas LC, Oliver WR, Schmunk GA, Weedn VW, NAME Ad hoc committee on Medical Examiner Independence. National Association of Medical Examiners Position Paper on Medical Examiner Independence. Acad For Path 2013(1)93-98.
13. Oliver, WR. Considerations for Gross Autopsy Photography (chapter) in Autopsy Performance and Reporting 3rd ed. Kim Collins ed. College of American Pathologists. 2017

Presentations/Posters: (titles approximate)

Smith, GS, and Oliver, WR. Estimation of S-phase timing by Multiresolution Image Analysis, XVI Intl. Congress on Analytical Cytology, 1993

Oliver, WR, , et al. Three-Dimensional Visualization of Bullet Path: Verification by Computed Radiography American Academy of Forensic Sciences, 1993.

Oliver, WR. "Image Processing in Patterned Injury Analysis. National Association of Medical Examiners, 1993

Junger, Erich, Oliver, WR "The Alan Schindler Case. AAFS, 1994.

Oliver, WR, Altschuler, B. "Use of Three-Dimensional Range Finding in the 3D Evaluation of Patterned Injuries" American Academy of Forensic Sciences, 1995.

Oliver, WR. "A tutorial on Image Processing in Patterned Injury Analysis" American Academy of Forensic Sciences, 1995.

Oliver, WR and Fritsch, Daniel. Towards a metric for patterned injury analysis AAFS, 1996.

Oliver, WR and Merrill, R. Temporal changes in patterned injury. AAFS, 1996.

Oliver, WR. Image Processing implication of digital photography in the autopsy suite, NAME 1997.

Oliver, WR A NIIRS standard for forensic pathology images. NAME '98

Oliver, WR Image quality considerations for autopsy pathology, AAFS 99

Oliver, WR Simulation of explosion to model patterns of injury. NAME '99

Oliver, WR Engineering applications in Forensic Pathology. AAFS 2000

FBI SWGIT: Imaging Standards in Forensic Investigation AAFS 2002

Oliver, WR, et al. Magnetic Resonance Microscopy in the evaluation of Shaken Baby Syndrome AAFS 2002

Vorder Bruegge. et al. Forensic Digital Imaging AAFS 2002 (Workshop)

Downs, et al. Reconstruction of a 6-fatality car mishap, Pea River, Ala. AAFS 2002

Oliver, WR. Computer Security for Medical Examiners, NAME, 2002 (Workshop)

Vorder Bruegge, R.W. and Oliver, WR. Comparing the Resolution of Film to Digital Cameras: cautions for the forensic community. SPIE AEROSENSE 2002

Oliver, WR, Lawson, P, Rodriguez, WC, Knittel, D.,Bijhold, J., Clemente, D. "Evaluation of Putative Snuff films" AAFS 2003

Thali, M., Oliver, WR, Dimhofer, R, Potter, K., Rodriguez, WC. Analysis of Electric Injury Patterns in Human Skin by Magnetic Resonance Microscopy. AAFS 2003

Baker, A, Potter, K, Oliver, WR. Magnetic Resonance Microscopy as an Adjunct to the Evaluation of Pediatric Rib Fractures AAFS 2003

Oliver, WR. Truth and Beauty in Forensic Imaging. SIGGRAPH special panel, 2003.

Patterned Injury Analysis, Image Processing, and Image Quality, NCIS Advanced Investigation Course, FLETC (Federal Law Enforcement Training Center), Department of Homeland Security, Brunswick, GA 22 JUN 2004.

SWGIT guidelines on Image Analysis, AAFS, 2005, 2006,2007,2009 Image Quality in Forensic Imaging, AAFS, 2005

Disproving a snuff film through analysis of its provenance, AAFS, 2005

Image Processing in Forensic Pathology, AAFS workshop, 2006,2007,2008,2009, 2010, 2011, 2012

Effect of litigation of Forensic Pathologist Diagnostic Behavior, NAME, 2008

Pathophysiology of electromuscular disruption devices, NC Forensic Sciences Seminar, 2009 Diagnostic Reasoning in Forensic Pathology, Wisconsin regional forensics inservice, 2009

Medical evaluation of deaths in custody, AAFS Workshop, 2010

Precision of Body Length Measurements at Autopsy, AAFS, 2010

UV/IR Photography for evaluation of tattoos in mummified remains, AAFS, 2010

NAS report, NC Forensic Sciences Seminar, 2010

Imaging Standards in the Courtroom, AAFS 2011

Inference in forensic medicine, NAME Interim meeting, 2011

TASERs and Excited Delirium, Public Agency Training Council, 2011

TASERs and Excited Delirium, UNC Chapel-Hill Grand Rounds, 2011

Issues in inferring 3D weapon structure from 2D skin impressions, AAFS 2012

Pathophysiology of TASER-related death, Vidant Health Pathology Grand Rounds, 2012
Standards in whole slide imaging, Imaging and Signal Processing in Health Care and Technology, Baltimore, 2012

Forensic Pathology Issues in the Trauma Service, ECU Trauma Symposium, 2012

Common errors in forensic pathology, East Carolina Forensic Pathology Symposium 2012

3D imaging in forensics AAFS 2013

Postmortem eye deviation AAFS 2013

Biomechanical modeling in Abusive Head Trauma, World Congress on Infant Head Trauma , 2013

Scientific Inference in Forensic Medicine, World Congress on Infant Head Trauma , 2013

Social role of the scientist, World Congress on Infant Head Trauma , 2013

Role of scene and history in forensic medical diagnosis, Eastern NC Regional Death Investigation Seminar, 2013

Scene investigation in forensic pathology, Eastern NC Regional Death Investigation Seminar 2014

Pathologist concurrence in interpretation of photographs of patterned injuries, AAFS 2015

Death certification, Office of the State Medical Examiner seminar, Greenville, NC 2015

Forensic photography in medicolegal death investigation, Eastern NC Regional Death Investigation Seminar, 2015

Reasons for lack of consensus in Pathologist diagnosis of patterned injuries, AAFS

2016

Scene investigation, National Forensic Academy, 2016

Cases of excited delirium not associated with police custody, NAME, 2016 (second author, not presenter)

NIJ grants for forensic pathology, Southern Pathology Chairs Conference, 2016

Excited Delirium. National Forensic Academy, 2016, 2017, 2018

Deaths in Custody, National Forensic Academy 2019, 2020

Medicolegal scene investigation. National Forensic Academy, 2017,2018, 2019, 2020

Methods of inference in medical diagnosis. Forensic Odontology Seminar, University of Tennessee, Knoxville, 2017,2018,2019

Results of 2018 medicolegal death investigation salary survey, NAME 2018

Results of 2019 medicolegal death investigation salary survey, NAME 2019

Patterned injury analysis. Forensic Odontology Seminar, University of Tennessee, Knoxville, 2020

JM Lohman, W Oliver, M Rollins, Fulminant Hypereosinophilic Syndrome Consistent with Churg-Strauss Syndrome Presenting at Autopsy (Poster, NAME 2021)

Scene investigation and cognition, National Forensic Academy, 2020-2021

What really killed George Floyd, National Forensic Academy, 2022

Professional/Employment Awards:

Joint Service Commendation Medal, Joint Service Achievement Medal (DOD).

Letter of Commendation for Rodney King reconstruction, Attorney General Janet Reno

FWC100, 1997 (Federal Computing Week 100 most influential federal information technology professionals award)

Finalist, Berry Prize, 1998 for contributions to federal medicine.

Civilian Commendation Award (DOD), 2001

Certificate of Commendation for Pentagon Terrorist Attack actions, 2002

Certificate of Appreciation upon retirement, NC-OCME 2016

Other:

Clearance:

TS (DOD) expired Dec 2005

Introductory biography for William Oliver (long)

Dr. Oliver received his BS in Microbiology from Oklahoma University, and MD from Vanderbilt University in Nashville, TN, where he was introduced to forensic pathology by Dr. Jack Edland. While pursuing his residency in Anatomic and Clinical Pathology at the University of North Carolina at Chapel Hill, he also was a graduate student in Computer Science and received his MS in Computer Science with an emphasis on computer vision and graphics. During this period he also completed a fellowship in Forensic Pathology at Chapel Hill under Page Hudson and John Butts. He then joined the Army and was stationed at the Armed Forces Institute of Pathology where he was employed developing visualization algorithms for confocal microscopy and acted as a Deputy Medical Examiner for the Office of the Armed Forces Medical Examiner, primarily involved in forensic image analysis. While at the AFIP, he worked on such cases as the beating of Rodney King in Los Angeles, the shootings at Ruby Ridge, Idaho, the murder of Nicole Simpson, and various hostage, terrorist, and operational imagery of national interest. While with the federal government, he was chosen as a finalist for the Frank Brown Berry Prize in Federal Medicine, elected as one of Federal Computer Week's 100 most influential federal IT professionals, received a letter of commendation from the Attorney General for efforts in cases of national interest, and was commended for work on the investigation of the Pentagon attack on 11 SEP 2001.

After leaving the Department of Defense, he became a Regional Medical Examiner for the Georgia Bureau of Investigation, heading the Northwest Regional Office in Summerville, GA. He was then recruited as Professor and Director of Autopsy and Forensic Services at Brody Medical School at East Carolina University and head of the Regional Medical Examiner Office for the northeastern portion of North Carolina. Following his retirement from East Carolina, he worked as Assistant Medical Examiner for Knox and Anderson Counties, Knoxville TN until his second retirement in April 2021. He is now engaged primarily in private consultation and locum tenens coverage for the Regional Forensic Center in Knoxville, TN.

Dr. Oliver has worked on numerous cases of national interest including evaluation of the Pentagon attack on 9/11, the beheading of journalist Daniel Pearl by Al Qaeda in Pakistan, and the shooting of Randy and Vicky Weaver in Ruby Ridge, Idaho. Most recently, Dr. Oliver was a defense expert in the Derek Chauvin trial involving the death of George Floyd and was head of a panel tasked by the family of Jeffrey Epstein to review his death while incarcerated.

His interests are in image processing applications in forensic pathology, interpretation of patterned injuries of the skin, methods of inference in forensic

pathology, and quantitative methods for validation and quality of image interpretation in forensic pathology. He was Chair of the Image Analysis subcommittee of the FBI-sponsored Scientific Working Group on Imaging Technologies from 1999 until its disestablishment, and is an emeritus member of the executive committee of the Applied Image Pattern Recognition Workshop held annually at the Cosmos Club in Washington, DC. He was a member of the NIST Organization of Scientific Area Committees – Medicolegal Death Investigation Subcommittee developing federal standards for death investigation and the American Academy of Forensic Sciences standards committee on patterned injury evaluation. He is medical advisor to the National Police Memorial in Washington, DC.

He has served on numerous committees for the National Association of Medical Examiners and was on their Board of Directors. He has served on numerous peer-review committees for the National Institutes of Health and National Institute of Justice, was coauthor of the CDC guidebook on Medical Examiners, Coroners, and Biological Terrorism and was on the major medical panel for the evaluation of the use of electromechanical disruption devices in law enforcement for the Department of Justice. He is on the editorial board of the American Journal of Forensic Medicine and Pathology and Academic Forensic Pathology. He has published in numerous journals including Social Psychiatry, Journal of Surgical Oncology, Cancer, Transactions on Pattern Analysis and Machine Intelligence, Journal of Forensic Sciences, American Journal of Forensic Medicine and Pathology, Magnetic Resonance Imaging, and The International Journal of Intelligence and Counterintelligence, and has authored multiple book chapters. Dr. Oliver performed research on patterned injury through a grant from the National Institute of Justice to investigate patterned injury interpretation, resulting in three peer-reviewed publications.

Introductory biography (short):

William R. Oliver received his MD from Vanderbilt University School of Medicine. He then completed his residency in Anatomic and Clinical Pathology, graduate school in Computer Science, and fellowship in Forensic Pathology at the University of North Carolina at Chapel Hill. Following his training in North Carolina, he joined the Army and was stationed at the Armed Forces Institute of Pathology as Staff Pathologist in Molecular Pathology, Director of the Scientific Computing Laboratory, and Deputy Medical Examiner for the Office of the Armed Forces Medical Examiner. Following his military service, he was recruited by the Georgia Bureau of Investigation as Northwest Regional Medical Examiner, where he also received his Master's Degree in Justice Administration. He then accepted the position as Professor of Pathology and Director of Autopsy and Forensic Services at Brody School of Medicine at East Carolina University in Greenville, NC. Following his retirement from East Carolina, he worked as Assistant Medical Examiner for Knox and Anderson Counties, Knoxville TN until his second retirement in 2021. Dr. Oliver's areas of interest are in image processing and computer vision applications in forensic pathology, policy effects of litigation on practice, inference and diagnostic reasoning, and patterned injury of the skin. He has been active on a number of national committees involving issues in death investigation and has been a grant reviewer for the National Institute of Justice. He is advisor to the National Police Memorial in Washington, DC. He has published in a number of journals and is on the Editorial Boards of Academic Forensic Pathology and the American Journal of Forensic Medicine and Pathology.