

Curriculum Vitae

Jason Graef Linville, Ph.D.

Assistant Professor/MSFS Program Director
Department of Justice Sciences
University of Alabama at Birmingham

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Education

- 2003 Ph.D. Biology. University of Alabama at Birmingham (UAB)
Doctoral Training Program in Forensic Science (1998)
Dissertation Title: *The recovery and characterization of vertebrate DNA from forensically important fly larvae : an optimization study*
- 1998 B.S. Forensic Chemistry. Ohio University, Athens, OH

Professional Positions

- 2006 - Present Teaching Assistant Professor, UAB
Duties: Course instructor for undergraduate forensic science course and graduate-level forensic science and molecular biology courses; advisor to graduate students; research advisor to undergraduate and graduate students
- 2006 - 2014 Master of Science in Forensic Science (MSFS) Program Director, UAB
Duties: Recruitment; course instructor for undergraduate forensic science course and graduate-level forensic biology courses; advisor to MSFS students
- 2006 Instructor, UAB
Duties: Supervise Master of Science in Forensic Science (MSFS) students' final presentations; order, receive, upgrade and install major instrumentation; process incoming student applications for MSFS program
- 2004 - 2005 Visiting Assistant Professor, UAB
Duties: Acting Director of the MSFS program; course instructor for undergraduate forensic science course and graduate-level forensic biology courses; advisor to MSFS students

Courses Taught

Graduate

- JS572: Molecular Biology for Forensic Scientists, UAB. Fall 2004 - present
JS670: Elements of Forensic Science, UAB. Fall 2004 – Fall 2008
JS674: Biological Methods in Forensic Science, UAB. Spring 2005 – present
JS676: Adv. Biological Methods in Forensic Science, UAB. Spring 2005 - present
JS679: Seminar in Forensic Science, UAB. Fall 2004 – present

Undergraduate

JS110: Introduction to Forensic Science, UAB. Fall 2004 – present

JS110 ONLINE: Introduction to Forensic Science (online), UAB. Fall 2006 – present

STH299: Interdisciplinary Seminar: Forensic Science, UAB. 2010, 2011.

JS350: Forensic Science Lab I, UAB. Fall 2007

JS352: Forensic Science Lab III, UAB. Spring 2008 – present

Online Teaching

- Canvas, Blackboard Learn, and Blackboard Vista Platforms
- Develop Powerpoint lectures with voice notes
- Create assessments using Respondus campus-wide software
- Create assignments that were distributed and submitted online
- Live and archived lectures using GoToTraining, Blackboard Collaborate, and WIMBA

Community Outreach

2014 Forensic Science Workshop at Scoutfest. Decatur, AL.

Shadowed by 7-8th grade students from Joseph Bruno Montessori Academy

Camp CSI Birmingham, a summer camp for high school students. Instructor and content developer.

2013 Shadowed by 7-8th grade students from Joseph Bruno Montessori Academy

Camp CSI Birmingham, a summer camp for high school students. Instructor and content developer.

2012 Forensic Science Educational Conference, a three day conference sponsored by the American Academy of Forensic Sciences. Instructor and content developer.

Camp CSI Birmingham, a summer camp for high school students. Instructor and content developer.

Career Day. North Birmingham Elementary.

2011 Interview. The Path to Forensics. Tianna Trammel. vimeo.com/33253414

2010 Camp CSI Birmingham, a summer camp for high school students. Instructor and content developer.

2009 Camp CSI Birmingham, a summer camp for high school students. Instructor and content developer.

Bewhoyouwannabe mentor, program through the Mattie C. Stewart Foundation

Shadowed by high school and junior high students

2008 Camp CSI Birmingham, a summer camp for high school students. Instructor and content developer.

Mock expert witness for Cumberland School of Law mock trial

Interviewed by the Birmingham News on career opportunities in forensic science, published

Segment for Alabama Public Television's *On the Job*

AAGEP/LSAMP Graduate School Fair

Community Outreach: Presentations

- 2014 Careers in Forensic Science. Helena High School. Helena, AL.
Careers in Forensic Science. Ramsay High School. Birmingham, AL.
Careers in Forensic Science. Minor High School. Hosted at UAB.
Teaching Forensic Science. Bioteach Workshop, McWane Center. Birmingham, AL.
Genetics in Forensic Science. Molecular Biotechnology Program, UAB.
- 2013 Careers in Forensic Science. Vincent Middle School. Vincent, AL.
Forensic Biology. Alabama State University. Montgomery, AL.
Teaching Forensic Science. Bioteach Workshop, McWane Center. Birmingham, AL.
Lab Security and Biometrics. ASIS. Hosted at UAB.
Careers in Forensic Science. Alabama Guidance Counselors. Hosted at UAB.
Genetics in Forensic Science. Molecular Biotechnology Program, UAB.
- 2012 Careers in Forensic Science. Brookwood High School. Hosted at UAB.
Careers in Forensic Science. Talladega Middle School. Hosted at UAB.
Teaching Forensic Science. Bioteach Workshop, McWane Center. Birmingham, AL.
Genetics in Forensic Science. Department of Public Health, UAB.
- 2011 Molecular Genetics in Forensic Science. Department of Biology, UAB.
Blood and Biological Fluid Identification. Chilton County High School. Clanton, AL.
Teaching Forensic Science. Bioteach Workshop, McWane Center. Birmingham, AL.
Genetics in Forensic Science. Department of Public Health, UAB.
- 2010 Careers in Forensic Science. John Carroll High School, Birmingham, AL.
Teaching Forensic Science. Bioteach Workshop, McWane Center, Birmingham, AL.

- Genetics in Forensic Science. Department of Public Health, UAB.
- 2009 Careers in Forensic Science. Ensworth School, Nashville, TN (via Skype).
Science Career Awareness Workshop, Mississippi State University, Starkville, MS.
- 2008 Careers in Forensic Science. Ramsey High School Career Expo, Birmingham, AL.
- 2007 Pell City High School, Walker High School, 2007.
- 2006 Careers in Forensic Science. University of Louisiana – Monroe.
Birmingham City Schools Internship Program. Birmingham, AL.
- 2002 DNA in the courtroom. Part of a certification program for Victim Service Officers in Montgomery, AL.
- 2001 Careers in Forensic Science. Athens State University, Athens, AL.

Service: Research Mentor and Committees

- 2014 REU Summer Research. Jasmine Ruiz-Yi, Margaret Raydo.
Committee Chair, MSFS Graduate Students. Dorothy Horton, Jenny Stephenson, Rashida Walker, Megan Sullivan, Sarah Lusk, Renetra Gist, Mary Katherine Bartow, Zachary Wallen.
Thesis Committee Member. MSFS Graduate Students. Andrew Eaton, Jace Daniels.
- 2013 REU Summer Research. Danielle Ballard, Nicole Pettofrezzo.
Committee Chair, MSFS Graduate Students. Ellas Aldrich, Jessica Cunningham, Christopher Gore, Erin Grefer, Ryan Smith.
Thesis Committee Member. MSFS Graduate Student. Emily Bouso, Brandi Jefferson.
Dissertation Committee Member. Jonathon Huang. Department of Biology, UAB.
Thesis Committee Member. Amanda Garrett. Biomedical Forensic Sciences, Boston University.
Thesis Committee Member. David Patlak. Biomedical Forensic Sciences, Boston University.
- 2012 REU Summer Research. Jennifer Pearson, Nytisha Smith.
Committee Chair, MSFS Graduate Students. Aramie Evans, Kayla Corey, Stephanie Mitchell, Kari Shiffman.
Thesis Committee Member. MSFS Graduate Student. Brittany Aho Phillips.
Master's Thesis Committee Member. Hyunm Koo. Department of Biology, UAB.

- 2011 McNair Summer Research. Rashidra Walker.

 REU Summer Research. Charmaine Williams, Marcus Pennington.

 Committee Chair, MSFS Graduate Students. Dale Becker, Kendall Stoner, Irene Chen, Nathan Rhea
- 2010 McNair Summer Research. Jamiese Lucious, Rashidra Walker.

 REU Summer Research. Ellas Aldrich, Kimberley Burgess.

 Committee Chair, MSFS Graduate Students. Adrienne Alexander, Jaquelyn Jenkins, Gina Presley, Cassandra Sinder, Mary Stano.

Grants/Contracts

- 2013 Alabama Department of Forensic Sciences (ADFS) (\$42K training contract/1 year). Jason Linville (Principle Investigator). Research Support for ADFS -- Academic 2013-2014.
- 2012 Alabama Department of Forensic Sciences (ADFS) (\$42K training contract/1 year). Jason Linville (Principle Investigator). Research Support for ADFS -- Academic 2012-2013.
- 2011 Alabama Department of Forensic Sciences (ADFS) (\$42K training contract/1 year). Jason Linville (Principle Investigator). Research Support for ADFS -- Academic 2011-2012.
- 2010 Alabama Department of Forensic Sciences (ADFS) (\$42K training contract/1 year). Jason Linville (Principle Investigator). Research Support for ADFS -- Academic 2010-2011.
- 2009 Alabama Department of Forensic Sciences (ADFS) (\$42K training contract/1 year). Jason Linville (Principle Investigator). Research Support for ADFS -- Academic 2009-2010.
- 2008 Alabama Department of Forensic Sciences (ADFS) (\$42K training contract/1 year). Jason Linville (Principle Investigator). Research Support for ADFS -- Academic 2008-2009.
- Forensic Science Foundation ACORN Grant (\$400). A comparison of collection methods for low copy number DNA.

Publications

- Wells Jeffrey and JG Linville. Chapter 70: Overview. Encyclopedia of Forensic Sciences, 2nd ed. Jay A. Sielgal and Pekka Saukko, Editors-in-Chief. Academy Press, 2013.
- Liu RH, Wu CH, Chen YJ, Chang CD, Linville JG, Canfield DV. Intensity of the Internal Standard Response as the Basis for Reporting a Test Specimen as Negative or Inconclusive. J. Analytical Tox. 2007 Nov/Dec; 31(9):549-554.
- Pai CY, Hsieh LL, Lee TC, Yang SB, Linville J, Chou SL, Yang CH. Mitochondrial DNA sequence alterations observed between blood and buccal cells within the same individuals having betel quid (BQ)-chewing habit. Forensic Sci Int. 2006 Jan 27;156(2-3):124-30.
- Linville JG, Hayes J, Wells JD. Mitochondrial DNA and STR analyses of maggot crop contents: effect of specimen preservation technique. J Forensic Sci 2004;49(2):341-344.

- Linville JG and Wells JD. Surface sterilization of a maggot using bleach does not interfere with mitochondrial DNA analysis of crop contents. *J Forensic Sci* 2002;47(5):1055-1059.

Presentations at Professional Meetings

- STR Profiling of Bloodstained T-Shirts Submerged in a Freshwater Lake. Ryan Smith and Jason Linville. Poster presented by **Ryan Smith** at the American Academy of Forensic Sciences Annual Meeting in Washington, DC. Abstract published in the Proceedings of the American Academy of Forensic Sciences, 2013.
- Persistence of Volatile Organic Compounds Associated with Human Decomposition on Carpet Samples. **Christopher Gore** and Jason G. Linville. Poster presented by Christopher Gore at the American Academy of Forensic Sciences Annual Meeting in Washington, DC. Abstract published in the Proceedings of the American Academy of Forensic Sciences, 2013.
- Development and Validation of a PCR Amplification Kit: An STR Multiplex System for Teaching and Research Purposes. **Ellas Aldrich, Erin Grefer**, Jennifer Pearson, Nytisha Smith, and Jason Linville. Poster presented at the American Academy of Forensic Sciences Annual Meeting in Washington, DC.
- Comparison Study of Luminol and Luminol Based Solutions. **Megan Cullen**, Jason Linville and Elizabeth Gardner. Poster presented by Megan Cullen at the Young Forensic Scientists Forum Poster Session hosted at the American Academy of Forensic Sciences Annual Meeting in Washington, DC.
- STR Profiling of Bloodstained T-Shirts Submerged in a Freshwater Lake. **Ryan Smith** and Jason Linville. Poster presented by Ryan Smith at the Alabama State Association of Forensic Sciences in Orange Beach, AL. 2012.
- Microcrystal Analysis of Methamphetamine Hydrochloride in the Presence of Added Adulterants. **Kayla Corey** and Jason Linville. Poster presented by Jason Linville at the Alabama State Association of Forensic Sciences in Orange Beach, AL. 2012.
- A Comparison of the Extraction of Buccal Cells from DNA Collection Cards Using Magnetic Bead and Organic Extraction Methods. **Jackie Jenkins**, Jason Linville, Alison Ethridge, Sue Rogers, and Angelo Della Manna. Poster presented at the American Academy of Forensic Sciences Annual Meeting in Seattle, WA. Abstract published in the Proceedings of the American Academy of Forensic Sciences, 2010.
- Extracting human DNA from the crops of maggots that have been collected during different stages of development and preserved using different methods. Presented by JG Linville at the American Academy of Forensic Sciences Annual Meeting in Chicago, IL. 2003.
- Removing External Contamination of maggots with a bleach solution without inhibiting genetic analysis of maggot crop contents. Presented by JG Linville at the American Academy of Forensic Sciences Annual Meeting in Atlanta, GA, 2002.
- The Use of PCR-RFLP and HDA for the identification of forensically important sarcophagidae. Presented by JG Linville at the 75th Annual Meeting of the Southeastern Branch of the Entomological Society of America in Augusta, GA, 2001.
- Species identification of sarcophagid flies using PCR-based methods. Presented by JG Linville at the American Academy of Forensic Sciences Annual Meeting in Seattle, WA, 2001.

References

Available upon request