

Kelsie Bryand
Adjunct Professor, Forensic Lab Supervisor
College of Criminal Justice
Sam Houston State University

Degrees Earned

Masters of Science in Forensic Science August 2003
Sam Houston State University, Huntsville, Texas

Bachelor of Arts in Biology with Chemistry minor August 2001
Texas A&M University, College Station, Texas

Professional Licensure and Certifications

2017 Discovering and Documenting Clandestine Graves Certification. Sirchie Education & Training, March 21

2011 ASCLD/LAB- International Auditor Training Certification, American Society of Crime Laboratory Directors Laboratory Accreditation Board, Houston, TX, April 12-15

2010 Collaborative Institutional Training Initiative (CITI) SHSU Research Administrators Certification, Huntsville, TX

2009 API 4000/3200 Operator Training Certification, Applied Biosystems (An Applied Biosystems Corporation Business), Foster City, CA June 10-12

2008 Agilent ChemStation Certification, American Academy of Forensic Science (AAFS), Washington DC, February 18

2002 Agilent GCMS for Drugs of Abuse, GCMS for Fire Debris, GC Columns Revisited, Bullet Ricochet, Ethics in Forensics Science, Southwestern Association of Forensic Scientists (SWAFS), Scottsdale, AZ, November 5

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

Sydney Sullinger, Kelsie Bryand and Sarah Kerrigan. Identification of Suvorexant in Urine Using Liquid Chromatography-Quadrupole/Time-of-Flight Mass Spectrometry (LC-Q/TOF-MS). Journal of Analytical Toxicology, 41(3), 224-229 (Apr 2017).

Lindsay Glicksberg, Kelsie Bryand and Sarah Kerrigan. Identification and Quantification of Synthetic Cathinones in Blood and Urine using Liquid Chromatography-Quadrupole/Time of Flight (LC-Q/TOF) Mass Spectrometry. Journal of Chromatography B, 1035, 91-103 (Nov 2016).

Sarah Kerrigan, Ashley Mullings, Breanna Jatzlau, Francisco Ortiz, Laura Perrella, Sarah Martin and Kelsie Bryand. Psychostimulants in Urine by Liquid Chromatography-Tandem Mass Spectrometry. Journal of Forensic Sciences. Journal of Forensic Sciences 59: 175–183 (2014).

Chen, D., Lin, C.-J., Jones, R. G., Patel, S., Smith, R., Simons, K., Davis, J. L. and Waisner, S. A. A deployable decentralized biofilm system for degrading organic carbon and benzene in wastewater. *Environ. Prog. Sustainable Energy*, 32: 505–511 (2013).

Francisco Ortiz, Breanna Jatzlau, Ashley Mullings, Kelsie Bryand and Sarah Kerrigan. Simultaneous Detection of Psychedelic Amphetamines in Urine by LC/MS/MS. *Proceedings of the American Academy of Forensic Sciences* (Feb 2011).

Phillip Stout, Kelsie Simons and Sarah Kerrigan. Quantitative Analysis of Gamma-Hydroxybutyrate (GHB) at Endogenous Concentrations in Hair using Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS). *Journal of Forensic Sciences* 55: 531-537 (2010).

Delisa Downey, Kelsie Simons, Kenji Ota, and Sarah Kerrigan. Quantitative Analysis of Carisoprodol and Meprobamate in Whole Blood Using Benzylcarbamate and Deuterated Meprobamate as Internal Standards. *Journal of Analytical Toxicology* 33: 278-282 (2009).

Jessica Ayala, Kelsie Simons and Sarah Kerrigan. Quantitative Determination of Caffeine and Alcohol in Energy Drinks and the Potential to Produce Positive Transdermal Alcohol Concentrations in Human Subjects. *Journal of Analytical Toxicology* 33: 27-33 (2009).

Garrett Lee Burleson, Brittney Gonzalez, Kelsie Simons, Jorn C.C. Yu. Forensic Analysis of a Single particle of Partially Burnt Gunpowder by Micro-Extraction-Gas Chromatography-Nitrogen Phosphorus Detector. *Journal of Chromatography A* 1216: 4679-4683 (2009).

Books

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Chapters

2017 Reviewer for Stuart H. James, Jon J. Nordby, and Suanne Bell. *Forensic Science: An Introduction to Scientific and Investigative Techniques* 4th edition. Taylor and Francis Publisher. Chapters 10, 19, and 20.

Proceedings

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Artistic Performances

na

Artistic Exhibitions

na

Research Monographs and Technical Reports

na

Funded External Grants

Long Term Stability of Synthetic Cathinones in Forensic Toxicology Samples. National Institute of Justice, 2013. Award #: 2013-R2-CX-K006. \$180,384. PI Dr. Sarah Kerrigan

Improved Detection of Synthetic Cathinones (“Bath Salts”) in Forensic Toxicology Samples. National Institute of Justice, 2012. Award #:2012-R2-CX-K003. \$190,227. PI Dr. Kerrigan

Texas Education Agency Grant-2011-2012 (\$300,000). Development of Forensic Science online training course for high school teachers. PI Dr. David Webb & Dr. David Gangitano

Designer Amphetamines in Forensic Toxicology Casework: Analysis and Prevalence. Funded by the National Institute of Justice, 2008/9 – 2009/10. Award #:2008-DN-BX-K126. \$ 466,492.00. PI Dr. Sarah Kerrigan

Peer-Review Presentations/Posters

Britni Skillman, Kelsie Bryand and Sarah Kerrigan. Quantification of Suvorexantin Blood Using LC-Q/TOF-MS. Proceedings of the Society of Forensic Toxicologists (2018), Boca Raton, FL.

Lindsay Glicksberg, Kelsie Bryand and Sarah Kerrigan. Stability of Synthetic Cathinones in Biological Evidence. Proceedings of the American Academy of Forensic Sciences (Feb 2017), New Orleans, LA.

Lindsay Glicksberg, Kelsie Bryand and Sarah Kerrigan. Fragmentation Pathways and Structural Characterization of Synthetic Cathinones Using Electrospray Ionization (ESI) and High Resolution Mass Spectrometry. Proceedings of the American Academy of Forensic Sciences (Feb 2016), Las Vegas, NE.

Stephanie Basiliere, Sarah Kerrigan and Kelsie Bryand. Fragmentation Pathways and Structural Characterization of Mitragynine and Its Metabolite Using Electrospray Ionization (ESI) and High Resolution Mass Spectrometry. Proceedings of the American Academy of Forensic Sciences (Feb 2016), Las Vegas, NE.

Lindsay Glicksberg, Kelsie Bryand and Sarah Kerrigan. Simultaneous Identification of Twenty-Two Synthetic Cathinones in Urine Using LC/Q-TOF-MS. Proceedings of the Society of Forensic Toxicologists (2015), Atlanta, GA.

Francisco Ortiz, Breanna Jatzlau, Ashley Mullings, Kelsie Bryand and, Sarah Kerrigan. Simultaneous Detection of Psychedelic Amphetamines in Urine By LC/MS/MS. Proceedings of the American Academy of Forensic Sciences (2011), Chicago, IL.

Danielson, T., Mozayani, A., and Simons, K. Fencamfamine in a Postmortem Case. Proceedings of the Southwestern Association of Toxicologists (2003), Austin, TX.

Work or Professional Experiences

2006-present Forensic Laboratory Supervisor & Coordinator, Department of Forensic Science, College of Criminal Justice, Sam Houston State University, Huntsville, TX

2013-present Adjunct Professor, Department of Forensic Science, College of Criminal Justice, Sam Houston State University, Huntsville, TX

2014-2015 Consultant/Manager, Forensic Science Teacher Professional Development (Epsilon online course), Texas Education Agency, Huntsville, TX

2011 Quality Control Manager, Regional Crime Laboratory, College of Criminal Justice, Sam Houston State University, The Woodlands, TX

2010 Administration Coordinator, Forensic Science Educator Training (FSET) for high school teachers (August 9-12)

2009 Administration Coordinator, Forensic Science Educational Conference (FSEC) through American Academy of Forensic Science (AAFS) for high school teachers (August 10-12)

2008-2009 Adjunct Professor, Department of Forensic Science, College of Criminal Justice, Sam Houston State University, Huntsville, TX

2003-2006 Analytical Chemist, Analytical Laboratory, Sam Houston State University, Huntsville, TX

2002-2003 Graduate Assistant, Department of Chemistry, College of Arts and Science, Sam Houston State University, Huntsville, TX

Honors and Awards

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Other Competencies

American Academy of Forensic Sciences - Regional Representative Committee Member, General Section, 2016-present.

American Academy of Forensic Sciences - Meeting Minutes Committee Member, General Section, 2014.