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| Curriculum Vita |
| Cumulative Progress Evaluation (’14-’18) |
| Candice Bridge |

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| **Candice Bridge, Ph.D.**12354 Research Parkway, Suite 225, Orlando, FL 32814407.823.1263cbridge@ucf.edu |
| **Profile** |
|  | * Skilled research chemist with doctorate in analytical analysis.
* Strong background in developing innovative methods of analysis.
* Certified Project Management Professional
* Selected as a 2016 UCF Woman Making History by the UCF CSWF
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| **Education** |
|  | Post-Doctoral ResearchUniversity of Central Florida, Orlando, FLCenter for Research and Education of Optics and Lasers | 2008 |
| Research Field: Capabilities of Nano- and Micro-Second Laser Induces Breakdown Spectroscopy (LIBS)Advisor: Dr. Martin Richardson |
| Doctorate of Philosophy in Chemistry*University of Central Florida, Orlando, FL* | 2007 |
| Dissertation topic: Discrimination of Forensic Trace Evidence using Laser Induced Breakdown Spectroscopy (LIBS)Advisor: Dr. Michael SigmanMy dissertation discussed the development of analytical methods to discriminate various types of forensic trace evidence using Laser Induced Breakdown Spectroscopy (LIBS). This involved developing statistical methods that can compare LIBS emission spectra from known and unknown samples.  |
| Bachelor of Science in Chemistry (ACS Certified)Howard University, Washington, DC | 2004 |
| Area of Concentration: Analytical Chemistry and MathematicsThesis topic: Determination of Folic Acid and Caffeine using Matrix Assisted Laser Desorption Time-of-Flight Mass SpectrometryAdvisor: Dr. Folahan AyorindeMy thesis involved developing a procedure that would identify folic acid and caffeine in a solution similar to blood. |

Professional Experience

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| **Experience** |
|  | Assistant Professor of Chemistry/Forensic Science | August 2014 – Present |
| University of Central Florida, Orlando, FLCreate a new trace evidence research laboratory* Manage research grants: ~ $705,000

Provide mentorship and guidance for * 1 post-doctoral associate
* 10 graduate students
* 22 undergraduate students

Developed new online graduate courses* Forensic Analysis of Explosive
* Forensic Analysis of Ignitable Liquids
* Quality Assurance for Forensic Scientists

Manage the UCF MS Forensic Science Program* Program Assessment Coordinator
 |
|  | Research Physical Scientist | May 2011 – July 2014 |
| Defense Forensic Science Center, Forest Park, GAAs the dean and single point of contact for the Defense Forensic Science Center (DFSC) year round Educational Partnerships and Programs* Developed, implemented, and manage the on-going year-round USACIL Research Internship Program
* Engage with Military Academies to communicate awareness of the Summer Research Program
* Manage the Military Academy Summer Research program
* Lead point of contact for the Department of Defense (DoD) Smart Program
* Manage all aspects of the year-long Masters of Forensic Science Program for Military Forensic Science Officers/Consultants from enrollment, research and through graduation
* Developed, implemented, and manage the Visiting Scientist Program to collaborate with DoD Scientists in research
* Actively research, communicate, and engage with new Institutions to conduct joint research with the USACIL

As a research scientist for the DFSC* Developed and implemented the USACIL research process and capabilities
* Develop and conduct research projects with USACIL interns to expand forensic science capabilities for the USACIL
* Mentored and managed ten (10) interns to conduct forensic science research
* Perform statistical data analysis for USACIL research projects
* Assist other USACIL personnel to develop and submit research proposals

As a certified Project Management Professional (PMP), manage external research and development programs to advance forensic science capabilities with the DoD* Managed external vendors to ensure that agreed upon DoD deliverables were met
* Served as a liaison to the Military Criminal Investigation Organizations

Developed, implemented, and manage the Human Right Protection Program for the Office of the Provost Marshall General (OPMG)* Serve as the Human Protections Administrator (HPA)
* Determine if OPMG research projects are exempt from Institutional Review Board (IRB) reviews
* Serve as the liaison between the OPMG and the IRBs
 |
|  | Forensic Chemist | August 2009 – May 2011 |
|  | United States Army Criminal Investigations Laboratory, Forest Park, GAPerform forensic analysis to assist CID investigation* Examine fire debris trace evidence and make determinations as to the presence of ignitable liquids
* Begin training in explosive analysis
* Perform numerous studies to validate current analytical procedures

Conducted research in the area of fire debris analysis* Mentored a summer intern to understand fire debris analysis, gas chromatograph interpretation and statistical analysis
* Presented research findings to the leadership of the laboratory
 |
|  | Adjunct Professor of Chemistry | January 2010 – August 2011 |
| Atlanta Metropolitan College, Atlanta, GALecture general chemistry courses * Provide mentorship and guidance to students
 |
|  | Chemistry Lecturer | August 2008 – May 2009 |
| Howard University, Washington, DCLectured general chemistry and analytical Laboratory courses including: * Constructed chemistry laboratory courses and taught students general chemistry, analytical laboratory procedures and techniques to support lecture courses
* Initiated development of a forensic science sub-discipline for the chemistry department
* Voted “Professor of the Year”
 |
|  | Senior Research Scientist (Post-Doctoral) | January 2008 – June 2008 |
| Center for Research and Education of Optics and Lasers, Orlando, FLManaged projects for federally sponsored multi-state research grants for the Laser Spectroscopy Laboratory including: * Managed projects from conception through development, planning, budgeting, and scheduling and handled all purchases
* Conducted numerous meetings, conference calls and initiated report updates about current project status
* Mentored and supervised graduate students research

Conducted post-doctorate research on LIBS’s applications for the qualitative analysis of various organic materials including:* Developed analytical methods and data processing techniques for LIBS spectral comparison

z |
|  | Research Assistant/Teaching Assistant | January 2005 – December 2007 |
| University of Central Florida & National Center for Forensic Science, Orlando, FLDeveloped analytical methods for Laser Induced Breakdown Spectroscopy including:* Determined LIBS’s ability to discriminate by comparing it’s analysis to currently used instrumentation
* Evaluated LIBS’s application for the qualitative and quantitative analysis of various organic materials
* Developed statistical computer programs for data processing of LIBS spectral comparison.

Taught General Chemistry Recitation 160 student during the first year of graduate school.  |
|  | Research Scientist | Summers 2005 - 07 |
| South Carolina State Law Enforcement Division, Columbia, SCDeveloped analytical methods for the forensic analysis of trace evidence:* Analyzed the comparison of trace automobile float glass and paint samples.
* Developed analysis procedures for the following instrumentation: XRF, LA-ICP-MS, SEM-EDX and GRIM3.
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|  | Research Scientist | Spring 2004 |
| National Research Center for Alcohol, Tobacco, Firearms & Arson, Beltsville, MDConducted research in the following areas: * Investigated the effects of cyanoacrylate (“krazy glue”) on the residue of high explosive evidence
* Performed research in Latent Prints, Firearms, Trace Evidence, Arson and Explosives.
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|  | Research Scientist  | Summer 2003 |
| National Center for Forensic Science, Orlando, FLConducted research to determine the efficiency of using paint cans for the collection of arson evidence including:* Examined and refined the methodology used in collecting and analyzing arson evidence in paint cans
* Analyzed the maximum concentration allowed in the paint cans before the information gathered from the analytical method used becomes skewed.
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| **honors and awards** |
|  | Oct 2017: 2017 UCF Luminary Award Winner* Inaugural Award presented to faculty making an impact on the world
* 1 of 45 awardees out of nearly 2,486 UCF faculty

Feb 2017: 2017 Young Phenom, Essence Magazine* Highlighted nationally for my research advancing sexual assault investigations in America

Mar 2016: 2016 UCF Woman Making History, UCF Center for Success of Women Faculty* 1 of 32 selectees highlighted for their commitment to humanity and the planet and have proved to be invaluable for society.

Jul 2014: Commanders Award for Civilian Service, Defense Forensic Science Center* Given to employees of the **U.S. Army** that have established a pattern of excellence, usually recognized through the previous receipt of one or more honorary or monetary performance awards.
* Presented to those who set an example of achievement for others

Feb 2013: Modern Day Technology Leader, Black Engineer of the Year Award Conference* These awardees are bright women and men who are shaping the future of engineering, science and technology.

May 2009: Professor of the Year, Howard University Chemistry Department* Selected by the students of the Chemistry Department as to which professor has shaped their future in chemistry.
 |
| **certifications** |
|  | Mar 2012 - Project Management Professional CertificationNov 2011 - Contractor Officer Representative |

Research Experience

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| **Research Interests** |
|  | Main Goal: Develop analytical methods for forensic evidence that can be transferred to operational forensic casework. * Sexual Lubricants: Develop a classification scheme to analyze and interpret unknown lubricants used in sexual assaults.
* Gunshot Residue: Analyzing organic gunshot residue as a complementary technique to inorganic gunshot residue.
* Drug and Metabolite: Identifying drugs and metabolites in the presence of adulterants.
* Other Trace Evidence: Determining the evidentiary value of other types of trace evidence, i.e. glitter, shimmer, and hair.
* Ambient Ionization Mechanism: Understanding and harnessing AI mechanisms to develop selection ionization procedures.
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| **Publication/Presentation Summary** |
|  | **Journal Publications:** **18** total; **4** For. Sci. Intl., **3** For. Chem., **3** Proc. of SPIE**Presentations & Seminars: 77** |
| **publications (\* Undergraduate researcher)** |
|  | Refereed Journal Articles18. M. Marić, J. Marano, R. B. Cody, C. Bridge. “DART-MS: A New Analytical Technique for Forensic Paint Analysis?”. *Analytical Chemistry*. 2018. *Submitted*17. B. Olivieri\*, M. Marić, C. **Bridge**. “Determining the Effects of Adulterants on Drug Detection via ELISA and Adulterant Tests Strips”. *Drug Testing and Analysis.* **2018**. *In Review*.16. L. Gandy\*, K. Najjar, M. Terry, C. **Bridge**. “A Novel Protocol for the Combined Detection of Organic and Inorganic Gunshot Residue”. *Forensic Chemistry*, 8, 1-10,**2018***.* DOI: 10.1016/j.forc.2017.12.009.* New forensic science journal for chemistry based research

15. B. Baumgarten, M. Marić, L. Harvey, C. **Bridge**. “Preliminary Characterization Scheme of Silicone Based Lubricants using DART-TOFMS”. *Forensic Chemistry*, 8, 28-39,**2018***.* DOI: 10.1016/j.forc.2017.12.005.14. Y. Moustafa, C. **Bridge**. “Distinguishing Sexual Lubricants from Personal Hygiene Products for Sexual Assaults Cases”. *Forensic Chemistry*, 5, 58-71, **2017***.* DOI: 10.1016/j.forc.2017.06.004. 13. M. Marić, L. Harvey, M. Tomcsak\*, A. Solano\*, C. **Bridge**. “Chemical Discrimination of Lubricant Marketing Types using Direct Analysis in Real Time Time-of-Flight Mass Spectrometry”. *Rapid Communications in Mass Spectrometry*,31(12), 1014-1022, **2017***.* DOI: 10.1002/rcm.7876. * Impact Factor: 1.998
* Cited by: 1

12. M. Terry, B. Fookes, C. **Bridge**. “Determining the effect of cartridge case coatings on GSR using post-fire priming cup residue”. *Forensic Science International,* 276, 51-63, **2017**. DOI: 10.1016/j.forsciint.2017.04.015* Impact Factor: 2.307
* Cited by: 1

11. M. Marić, C. **Bridge**. “Characterizing and Classifying Water-Based Lubricants using Direct Analysis in Real Time® – Time of Flight Mass Spectrometry”. *Forensic Science International,* 266, 73-79*,* **2016**. DOI: 10.1016/j.forsciint.2016.04.036. * Impact Factor: 2.345
* Cited by: 4

10. E. Sisco, M. Najarro, C. **Bridge**, R. Aranda. “Quantifying the Degradation of TNT and RDX in a Saline Environment with and without UV-Exposure”. *Forensic Science International*, 251, 124-131, **2015**. DOI: 10.1016/j.forsciint.2015.04.002.* Impact Factor: 1.81
* Cited by: 3

9. E. Sisco, J. Dake, C. **Bridge**. “Screening for trace explosives by AccuTOFTM-DART®: An in-depth validation study”. *Forensic Science International*, 232, 160-180, **2013.** DOI: 10.1016/j.forsciint.2013.07.006.* Impact Factor: 2.17
* Cited by: 39

8. H. Swofford, S. Steffan, G. Warner, C. **Bridge**, M. Salyards. “Impact of Minutiae Quantity on the Behavior and Performance of Latent Print Examiners”. *J. Forensic Identification*, 63 (5), 571-591, **2013*** Cited by: 3

7. H. Swofford, S. Steffan, G. Warner, C. **Bridge**, M. Salyards. “Inter- and Intra-Examiner Variation in the Detection of Friction Ridge Skin Minutiae”. *J. Forensic Identification*, 63 (5), 553-570, **2013*** Cited by: 9

6. J. Martin, M. Baudelet, M. Weidman, M. Fisher, C. **Bridge**, C. Brown, M. Sigman, P.J. Dadigian, M. Richardson. “Stand-off detection of organic samples using filament-induced breakdown spectroscopy,” in *Proc. of SPIE Int. Soc. Opt. Eng.*, **2009**,Vol 7306, 73060Z1-7* Cited by: 2

5. M. Weidman, M. Baudelet, M. Fisher, C. **Bridge**, C. Brown, M. Sigman, P.J. Dadigian, M. Richardson. “Molecular signal as a signature for detection of energetic materials in filament-induced breakdown spectroscopy,” in *Proc. of SPIE Int. Soc. Opt. Eng.*, **2009,** Vol 7304, 73041G1-7* Cited By: 10

4. C. G. Brown, M. Baudelet, C. **Bridge**, M. K. Fisher, M. Sigman, P.J. Dadigian, M. Richardson. “Atmosphere Issues in Detection of Explosives and Organic Residues,” in *Proc. of SPIE Int. Soc. Opt. Eng.*, **2009,** Vol. 7304, 73041D1-12* Cited by: 6

3. C. **Bridge**, J. Powell, K. Steele and M. Sigman. “Laser Induced Breakdown Spectroscopy (LIBS) Applications in Forensic Science: Comparative Glass Analysis”. *Spectrochimica Acta* Part B, 62(12), 1419-1425, **2007.** DOI: 10.1016/j.sab.2007.10.015.* Impact Factor: 2.76
* Cited by: 58

2. C. **Bridge**, J. Powell, K. Steele, J. MacInnins and M. Sigman. “Characterization of Automobile Float Glass with Laser Induced Breakdown Spectroscopy (LIBS) and Laser-Ablation Inductively Coupled Mass Spectrometry (LA-ICP-MS)”. *Applied Spectroscopy*, 60(10), 1181-1187, **2006*** Impact Factor: 1.83
* Cited by: 55

1. M. Williams, D. Fernandes**\***, C. **Bridge\***, D. Dorrien, S. Elliot and M. Sigman. “Adsorption Saturation and Chromatographic Distortion Effects on Passive Headspace Sampling with Activated Charcoal in Fire Debris Analysis”. *Journal of Forensic Sciences*, 50(2), 316-325, **2005*** Impact Factor: 1.244
* Cited by: 17
* Premier journal for forensic science research articles.

Conference Proceedings11. C. **Bridge**, B. Baumgarten, M. Marić, C. Vadelle-Orsini\*. Preliminary Characterization of Sexual Assault Lubricants: Comparison between DART-TOFMS, GC-MS, and FT-IR,” in *2018 PITTCON Forensic Science Symposium Proceedings.* **2018.**10. D. Green, M. Beazley, C. **Bridge.** “Identification and Quantification of Sexual Lubricant Degradation Pathways from Exposure to the Vaginal Bacterial Environment,” in *2018 PITTCON Forensic Science Symposium Proceedings.* **2018.**9. Y. Moustafa, C. **Bridge**. “The Evaluation of Sexual Assault Evidence Using DART-TOFMS and GC-MS,” in *2018 PITTCON Forensic Science Symposium Proceedings.* **2018.**8. D. Green**\***, C. **Bridge**, S. Lenhard, M.J. Salyards. “Synthetic Cannabinoid Colorimetric Detection,” in *Proc., American Academy of Forensic Sciences,*  Atlanta, GA, February 20-25, 2012, American Academy of Forensic Sciences, 18, **2012**, 1327. T. Green**\***, C. **Bridge**, J. Brown, M.J. Salyards. “Detection of Ammonium Nitrate and Ammonium Nitrate Mixtures in Soil,” in *Proc., American Academy of Forensic Sciences,*  Atlanta, GA, February 20-25, 2012, American Academy of Forensic Sciences, 18, **2012**, 886. D. Shadoin**\***, A. Robinson**\***, C. **Bridge**, M.J. Salyards. “The Impact of Gunshot Residue in Military Investigations and Legal Proceedings,” in *Proc., American Academy of Forensic Sciences,*  Atlanta, GA, February 20-25, 2012, American Academy of Forensic Sciences, 18, **2012**, 2495. J. Drewicz**\***, C. **Bridge**, C. Clemmons, M.J. Salyards. “The Effect of Carbon Disulfide on the Elution and Solvation Phases of Light and Medium Range Ignitable Liquids,” in *Proc., American Academy of Forensic Sciences,* Chicago, IL, February 21-25, 2011, American Academy of Forensic Sciences, 17, **2011**, 1014. C. **Bridge** and M.E. Sigman. “Glass Sample Discrimination by Laser Induced Breakdown Spectroscopy (LIBS) ,” in *Proc., American Academy of Forensic Sciences,* San Antonio, TX, February 19-24, 2007, American Academy of Forensic Sciences, 13, **2007**3. C. **Bridge**, J. Powell, K. Vomvoris, J. MacInnis, M.E. Sigman. “Characterization of Automobile Float Glass with Laser Induced Breakdown Spectroscopy (LIBS) and Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS),” in *Proc., American Academy of Forensic Sciences,* Seattle, WA, February 20-25, 2006, American Academy of Forensic Sciences, 12, **2006**, 125.2. K. Vomvoris, C. **Bridge**, Z. Parker, J. MacInnis, M.E. Sigman. “Analysis of Commercial Blasting Agents by Laser Induced Breakdown Spectroscopy (LIBS), with the Emphasis on Methods for Heterogeneous Samples,” in *Proc., American Academy of Forensic Sciences,* Seattle, WA, February 20-25, 2006, American Academy of Forensic Sciences, 12, **2006**, 59.1. M. Sigman, C. **Bridge**, K. Vomvoris, J.M. MacInnis. “LIBS: A New Tool for Forensic Analyses,” in *Laser Applications to Chemical, Security, and Environmental Analysis*, Incline Village, NV, February 2, **2006**.Doctoral Dissertation1. C. **Bridge**, “Discrimination of Forensic Trace Evidence using Laser Induced Breakdown Spectroscopy (LIBS)”, **2007**
* Cited by: 4
 |
| **conference Presentations (\* Undergraduate researcher)** |
|  | Invited Conference Presentations3. Emily Lennert, Candice **Bridge.** “Linking smokeless powder residues to pre-burn smokeless powders using DART-TOFMS and GC-MS”. SciX Conference, Reno, NV. Oct 8-13, **2017.**2. Mark Marić, Candice **Bridge.** “DART-MS: A New Tool for the Forensic Paint Examiner”. SciX Conference, Reno, NV. Oct 8-13, **2017**1. Mark Marić, Candice **Bridge.** “DART-TOF-MS Analysis of Personal Lubricants.” 2016 Middle Atlantic Regional (ACS) Meeting, Riverdale, NY. June 9-12, **2016**.Contributed Conference Presentations62. Danielle Green, Melanie Beazley, Candice **Bridge**. “Degradation of sexual lubricants from vaginal bacterial exposure”. 255th ACS National Meeting. New Orleans, LA. Mar. **2018.**61. Mark Maric, Candice **Bridge**. “Direct analysis in real time: A new technique for the forensic paint examiner”. 255th ACS National Meeting. New Orleans, LA. Mar. **2018.**60. Danielle Green, Melanie Beazley, Candice **Bridge.** “Identification and Quantification of Sexual Lubricant Degradation Pathways from Exposure to the Vaginal Bacterial Environment”. PITTCON. Orlando, FL. Mar **2018.**59. Yasmine Moustafa, Candice **Bridge.** “The Evaluation of Sexual Assault Evidence using DART-TOFMS and GC-MS”. PITTCON. Orlando, FL. Mar **2018.**58. Candice **Bridge**, Mark Maric, Brooke Baumgarten, Caterina, Vadell-Orsini\*. “Preliminary Characterization of Sexual Assault Lubricants: Comparison Between DART-TOFMS, GC-MS, and FTIR”. PITTCON. Orlando, FL. Mar **2018.**57. Kandyss Najjar, Candice **Bridge.** “Identification of Cosmetic Particles Transferred during Close Personal Attacks”. PITTCON. Orlando, FL. Mar **2018.**56. Emily Lennert, Candice **Bridge**. “Analysis and classification of pre-and post-burn smokeless powders by thermal desorption DART-TOFMS: A Validation Study”. PITTCON, Orlando, FL. Mar **2018.**55. Yasmine Moustafa, Candice **Bridge**. “The Persistence and Environmental Degradation Patterns of Sexual Lubricants and Personal Hygiene Products using DART-TOFMS and GC-MS”. American Academy of Forensic Sciences 70th Annual Meeting, Seattle, WA. February19-25, **2018.**54. Brooke Baumgarten, Caterina Vadell-Orsini\*, Mark Marić, Candice **Bridge**. “A Preliminary Characterization of Sexual Assault Lubricants: A Comparison between DART-TOFMS, GC-MS, and FTIR”. American Academy of Forensic Sciences 70th Annual Meeting, Seattle, WA. February19-25, **2018.**53. Bianca Olivieri\*, Mark Marić, Candice **Bridge**. “The Identification of Adulterants in Preliminary Drug Analysis.” American Academy of Forensic Sciences 70th Annual Meeting, Seattle, WA. February19-25, **2018.**52. Mark Marić, Robert B. Cody, Candice **Bridge**. “A Forensic Analysis of Automotive Paint Evidence using DART-MS”. American Academy of Forensic Sciences 70th Annual Meeting, Seattle, WA. February19-25, **2018.**51. Caterina Vadell-Orsisi\*, Brooke Baumgarten, Mark Marić, Candice **Bridge**. “Characterization and Classification of Sexual Lubricants and Condoms using FTIR Spectroscopy.” Florida Forensic Science Conference 1st Annual Meeting, Orlando, FL. Oct 17-18, **2017**.50. Bianca Olivieri\*, Mark Marić, Candice **Bridge**. “ELISA and Adulterated Drug Analysis.” Florida Forensic Science Conference 1st Annual Meeting, Orlando, FL. Oct 17-18, **2017**.49. Mark Marić, Robert B. Cody, Candice **Bridge**. “DART-MS: A new tool for forensic paint examiner?” Florida Forensic Science Conference 1st Annual Meeting, Orlando, FL. Oct 17-18, **2017**.48. Kandyss Najjar, Candice **Bridge**. “Identification of Cosmetic Particles Transferred During Close Personal Attacks.” Florida Forensic Science Conference 1st Annual Meeting, Orlando, FL. Oct 17-18, **2017**.47. Danielle Green, Melanie Beazley, Candice **Bridge**. “Identification and Quantification of Sexual Lubricant Degradation Pathways from Exposure to the Vaginal Bacterial Environment.” Florida Forensic Science Conference 1st Annual Meeting, Orlando, FL. Oct 17-18, **2017**.46. Yasmine Moustafa, Candice **Bridge**. “Distinguishing Sexual Lubricants from Personal Hygiene Products for Sexual Assault Cases.” Florida Forensic Science Conference 1st Annual Meeting, Orlando, FL. Oct 17-18, **2017**.45. Brooke Baumgarten, Candice **Bridge**. “Characterization and Classification of Silicone Lubricants with Statistics.” Florida Forensic Science Conference 1st Annual Meeting, Orlando, FL. Oct 17-18, **2017**.44. Yasmine Moustafa, Candice **Bridge**. “Distinguishing condom lubricants from personal hygiene products (PHPs) using direct analysis in real time-time-of-flight mass spectrometry (DART-TOFMS)”. UCF Graduate Research Forum. Orlando, FL. Apr 5, **2017**.43. Emily Lennert, Candice **Bridge**. “Characterization of pre- and post-burn smokeless powders by DART-TOMFS vs GC-MS”. UCF Graduate Research Forum. Orlando, FL. Apr 5, **2017**.42. Danielle Green, Melanie Beazley, Candice **Bridge**. “Identification and Quantification of sexual lubricant degradation pathways from exposure to the vaginal bacterial environment”. UCF Graduate Research Forum. Orlando, FL. Apr 5, **2017**.41. Andrew DeRouin\*, Candice **Bridge**. “Evaporation trends of condom lubricant components”. Showcase of Undergraduate Research Excellence Program, Orlando, FL. April 6, **2017**.40. Maren Tomcsak\*, Candice **Bridge**. “Characterization of condom lubricants by DART-TOFMS”. Showcase of Undergraduate Research Excellence Program, Orlando, FL. April 6, **2017**.39. Lauren Gandy\*, Candice **Bridge**. “Mechanistic investigations on organic color spot tests for smokeless powders”. Showcase of Undergraduate Research Excellence Program, Orlando, FL. April 6, **2017**.38. Lauren Gandy\*, Molly Terry, Candice **Bridge**. “A Combined method of Detection for Organic and Inorganic Gunshot Residue”. American Academy of Forensic Sciences 68th Annual Meeting, New Orleans, LA. February13-18, **2017.**37. Danielle Green, Melanie Beazley, Candice **Bridge**. “Identification and Quantification of Sexual Assault Lubricant Degradation Pathways from Exposure to the Vaginal Bacterial Environment.” American Academy of Forensic Sciences 68th Annual Meeting, New Orleans, LA. February13-18, **2017.**36. Emily Lennert, Candice **Bridge**. “Characterization of pre- and post-burn powders by DART-TOFMS and GC-MS”. American Academy of Forensic Sciences 68th Annual Meeting, New Orleans, LA. February13-18, **2017.**35. Mark Maric, Lauren Harvey, Angelique Solano\*, Maren Tomscak\*, Candice **Bridge**. “Development and Validation of an Analytical Protocol for the Characterization of Lubricant Evidence.” American Academy of Forensic Sciences 68th Annual Meeting, New Orleans, LA. February13-18, **2017.**34. Yasmine Moustafa, Candice **Bridge**. “Distinguishing Condom Lubricants from Personal Hygiene Products using Direct Analysis in Real Time Analysis-Time of Flight Mass Spectrometry (DART-TOFMS)”. American Academy of Forensic Sciences 68th Annual Meeting, New Orleans, LA. February13-18, **2017.**33. Mark Marić, Candice **Bridge**. “Characterization and Classification of Water-Based Personal Lubricants using DART-TOFMS with Multivariate Statistics.” The Australian and New Zealand Forensic Science Society 23rd International Symposium on the Forensic Sciences, Auckland, New Zealand. September 18-23, **2016.**32. Lauren Harvey, Candice **Bridge**. “ATR-FTIR and DART-TOF-MS Analysis of Silicone Based Personal Lubricants.” The Australian and New Zealand Forensic Science Society 23rd International Symposium on the Forensic Sciences, Auckland, New Zealand. September 18-23, **2016.**31. Molly Terry, Candice **Bridge**. “Metallic Characteristics of Post-Fire Priming Cup Residue.” The Australian and New Zealand Forensic Science Society 23rd International Symposium on the Forensic Sciences, Auckland, New Zealand. September 18-23, **2016.**30. Lauren Harvey, Candice **Bridge**. “DART-TOF-MS and ATR-FTIR Analysis of Silicone Based Personal Lubricants.” American Society of Mass Spectrometry Conference 64th Annual Meeting, San Antonio, TX. June 5-9, **2016.**29. Emily Lennert, Candice **Bridge**. “Metallic Muzzle Discharge Gunshot Residue Analysis by DART-TOF-MS.” American Society of Mass Spectrometry Conference 64th Annual Meeting, San Antonio, TX. June 5-9, **2016.**28. Lauren Harvey, Candice **Bridge.** “ATR-FTIR and DART-TOF-MS Analysis of Silicone Based Personal Lubricants.” 2016 Mid-Atlantic Association of Forensic Scientists Annual Conference, Richmond, VA, May 19-21, **2016.**27. Emily Lennert, Candice **Bridge.** “Metal Analysis by ESI-TOF-MS.” 2016 Mid-Atlantic Association of Forensic Scientists Annual Conference, Richmond, VA, May 19-21, **2016.**26. Molly Terry, Barry Fookes, Candice **Bridge.** “Metallic Characterization of Post-Fire Priming Cup Residue.” 2016 Mid-Atlantic Association of Forensic Scientists Annual Conference, Richmond, VA, May 19-21, **2016.**25. Lauren Harvey, Candice **Bridge.** “ATR-FTIR and DART-TOF-MS Analysis of Silicone Based Personal Lubricants.” Florida (ACS) Annual Meeting and Exposition, Palm Harbor, FL. May 5-7, **2016.**24. Emily Lennert, Candice **Bridge.** “Metal Analysis by ESI-TOF-MS.” Florida (ACS) Annual Meeting and Exposition, Palm Harbor, FL. May 5-7, **2016.**23. David S. H. Funes\*, Candice **Bridge**. “Quantification Analysis of Trace Evidence using Direct Analysis in Real Time-Mass Spectrometry”. Florida (ACS) Annual Meeting and Exposition, Palm Harbor, FL. May 5-7, **2016.**22. Lauren Gandy\*, Candice **Bridge.** “A Combined Method of Detection for Organic and Inorganic Gunshot Residue.” Florida (ACS) Annual Meeting and Exposition, Palm Harbor, FL. May 5-7, **2016.**21. Molly Terry, Candice **Bridge.** “Metallic Characteristics of Post-Fire Priming Cup Residue.” Florida (ACS) Annual Meeting and Exposition, Palm Harbor, FL. May 5-7, **2016.**20. Lauren Gandy\*, Candice **Bridge**. “A Combined Method of Detection for Organic and Inorganic Gunshot Residue”. Showcase of Undergraduate Research Excellence Program, Orlando, FL. April 7, **2016**. 19. David S. H. Funes\*, Candice **Bridge**. “Quantification Analysis using Direct Analysis in Real Time-Mass Spectrometry”. Showcase of Undergraduate Research Excellence Program, Orlando, FL. April 7, **2016**. 18. Angelique Solano\*, Mark Maríc, Candice **Bridge**. “Characterizing Condom Lubricants using Direct Analysis in Real Time-Mass Spectrometry”. Showcase of Undergraduate Research Excellence Program, Orlando, FL. April 7, **2016**. 17. David S. H. Funes**\***, Mark Maríc, Candice **Bridge**. “Quantification Analysis of Trace Evidence using Direct Analysis in Real Time-Mass Spectrometry”. The American Chemical Society Florida Chemistry Conclave, Orlando, FL. April 2, **2016.**16. Lauren Gandy**\***, Candice **Bridge**. “A Combined Method of Detection for Organic and Inorganic Gunshot Residue”. The American Chemical Society Florida Chemistry Conclave, Orlando, FL. April 2, **2016.**15. Lauren Gandy**\***, Candice **Bridge**. “A Combined Method of Detection for Organic and Inorganic Gunshot Residue”. American Academy of Forensic Sciences 68th Annual Meeting, Las Vegas, NV. February21-27, **2016.**14. Mark Marić, Lauren Harvey, Candice **Bridge**. “The Characterization of Personal Lubricants using Direct Analysis in Real Time – Time of Flight Mass Spectrometry”. Impression, Pattern, and Trace Evidence Symposium, San Antonio, TX. Aug 26-28, **2015.**13. Jacob Denkins**\***, Victoria Slaughter**\***, Matthew Rex, Barry Fookes, Candice **Bridge**. “Metallic Characterization of Priming Cup Residues using Atomic Absorption”. Florida (ACS) Annual Meeting and Exposition, Palm Harbor, FL. May 7-9, **2015.**12. Molly Terry, Andrea Young**\***, Barry Fookes, Candice **Bridge**. “Metallic Characteristics of Post-Fire Priming Cup Residue”. Florida (ACS) Annual Meeting and Exposition, Palm Harbor, FL. May 7-9, **2015.**11. Lauren Harvey, Candice **Bridge**. “Classification of Silicone Based Personal Lubricants using ATR-FTIR and DART-MS”. Florida (ACS) Annual Meeting and Exposition, Palm Harbor, FL. May 7-9, **2015.**10. Candice **Bridge.** “Forensic Analysis in Military Criminal Investigations”. SciX Conference, Milwaukee, WI. Sep 29 – Oct 4, **2013.**9. Danielle Green**\***, Candice **Bridge**, Sue Lenhard, Michael J. Salyards. “Synthetic Cannabinoid Colorimetric Detection”. American Academy of Forensic Sciences 64th Annual Meeting, Atlanta, GA. February 20-25, **2012.**8. Tammi Green**\***, Candice **Bridge**, Jesse Brown, Michael J. Salyards. “Detection of Ammonium Nitrate and Ammonium Nitrate Mixtures in Soil.” American Academy of Forensic Sciences 64th Annual Meeting, Atlanta, GA. February 20-25, **2012.**7. David Shadoin**\***, Anthony Robinson**\***, Candice **Bridge**, Michael J. Salyards. “The Impact of Gunshot Residue in Military Investigations and Legal Proceedings.” American Academy of Forensic Sciences 64th Annual Meeting, Atlanta, GA. February 20-25, **2012.**6. Jessica Drewicz**\***, Candice **Bridge**, Carol Clemmons, Michael J. Salyards. “The Effect of Carbon Disulfide on the Elution and Solvation Phases of Light and Medium Range Ignitable Liquids.” American Academy of Forensic Sciences 63nd Annual Meeting, Chicago, IL. February 21-25, **2011.**5. Candice **Bridge**, Michael E. Sigman, and Martin Richardson. “Chemometric Analysis of LIBS data: Identification of Explosives”. Federation of Analytical Chemistry and Spectroscopy Societies, Reno, NV. September 29 – October 2, **2008.**4. Candice **Bridge** and Michael E. Sigman. “Glass Sample Discrimination by Laser Induced Breakdown Spectroscopy (LIBS)”. American Academy of Forensic Sciences 59th Annual Meeting, San Antonio, TX. February 19-24, **2007.**3. Candice **Bridge**, Joseph Powell, Katie Vomvoris, Jean MacInnis, Michael E. Sigman. “Glass Discrimination by Laser Induced Breakdown Spectroscopy (LIBS)”. Federation of Analytical Chemistry and Spectroscopy Societies, Orlando, Fl. September 24-28, **2006.**1. Candice **Bridge**, Joseph Powell, Katie Vomvoris, Jean MacInnis, Michael E. Sigman. “Characterization of Automobile Float Glass with Laser Induced Breakdown Spectroscopy (LIBS) and Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS)”. Florida American Chemical Society (FAME), Orlando, Fl. May 11-13, **2006.**
2. Candice **Bridge**, Joseph Powell, Katie Vomvoris, Jean MacInnis, Michael E. Sigman. “Characterization of Automobile Float Glass with Laser Induced Breakdown Spectroscopy (LIBS) and Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS)”. American Academy of Forensic Sciences 58th Annual Meeting, Seattle, WA. February 20-26, **2006.**

Invited University Seminars/Colloquia7. Candice **Bridge.** “Forensic Analysis in Sexual Assaults.” University of South Florida, Tampa, FL, January 31, **2018.**6. Candice **Bridge.** “Forensic Analysis in Sexual Assaults.” Caribbean Maritime University, Kingston, Jamaica. January 2, **2018.**5. Candice **Bridge.** “Forensic Analysis in Sexual Assaults.” Florida Southern College, Lakeland, FL. November 30, **2017.**4. Candice **Bridge**. “Forensic Trace Evidence.” Valencia College, Orlando, FL. October 25, **2017.**3. Candice **Bridge**. “Forensic Trace Evidence.” Valencia College, Orlando, FL. February 27, **2017.**2. Candice **Bridge**. ”Forensic Chemistry Applications.” UCF Undergraduate Admissions Mini Lectures for Scholars Day and Open House, Orlando, FL. April 16, **2016.**1. Candice **Bridge**. “Forensic Analysis in Sexual Assaults: There’s More to be Discovered.” University of North Florida, Forensic Science Day: Sexual Assaults, Jacksonville, FL. April 1, **2016.****Outreach Seminars***Regularly seeks out opportunities to make students aware of science opportunities in forensic science, with a goal of increasing women and underrepresented people.*5. Candice **Bridge**. “Crisis in Black Education/American Education: The reality of Shifting Paradigms and Future Career Opportunities in STEM”. National Association for the Study of American Life and History, Valencia College, Orlando, FL. Oct 20, **2017.**4. Candice **Bridge**. “Analysis of Fire Debris Evidence”. Modern Interpretation of Forensic Evidence, Orlando Public Defender’s Office Spring Training Conference, Orlando, FL. Mar 11, **2016.**3. Candice **Bridge**. “Forensic Chemistry: Practical Applications”. Learning Institute for Elders at UCF, Orlando, FL. Jan 26, **2016.**2. Candice **Bridge**. “STEM Opportunities in Forensic Science”. Women/Underrepresented groups in STEM Panel at the Share Fair Orlando Meeting, Orlando, FL. January 23, **2016.**1. Candice **Bridge**. “STEM Opportunities in Forensic Science”. National Organization for Black Chemists and Chemical Engineers Conference, Orlando, FL. Sep 21-25, **2015.**1. Candice **Bridge**. “What is Forensic Science?” Greenwood Lake Middle School, Lake Mary, FL. **2014.** Introduce students to the realities of forensic science and what they need to do to get into a forensic science career.  |
| **Research Grants** |
|  | **External Grants Awarded**7. A Novel Approach to Automotive Paint Analysis using Direct Analysis in Real Time Mass Spectrometry. **Agency: The Forensic Science Foundation.** Amount: $4,800. Period: 11/1/2017 to 10/31/2019. ***Awarded**** PI: **Bridge**
* Develop a rapid analytical method for automobile paint samples using DART-MS and comparing discrimination capability to FTIR

6. Forensic Science Education of Central Florida Attorneys. **Agency: Orlando Public Defender’s Office**. Amount: $70,173. Period: 8/10/2017 – 8/10/2018. ***Awarded**** PI: **Bridge**
* Continued grant to educate lawyers on how forensic science can aid legal cases and continue to populate the website.

5. Identification and Detection of Cosmetics Transferred during Close Personal Attacks. **Agency: National Institute of Justice.** Amount: $150,000. Period: 8/1/2017 to 7/31/2020. ***Awarded*** * PI: **Bridge**
* Characterization shimmer and glitter that can be transferred in assaults and identify transfer rates

4. Characterization and Classification of Sexual Assault Lubricants using DART-TOFMS. **Agency: National Institute of Justice**. Amount: $324,085. Period: 1/1/2017 to 12/31/2018. ***Awarded**** PI: **Bridge**
* Develop characterization scheme and associated database to aid in the analysis of unknown sexual lubricants
* Highlighted: Essence Magazine (2017, 2016), Black Enterprise, UCF Today, ~30 websites and magazines

3. Characterization of Personal and Condom Lubricants using DART-TOFMS and Comprehensive GC-MS. **Agency: National Institute of Justice**. Amount: $150,000. Period: 8/1/16 to 7/31/19. ***Awarded**** PI: **Bridge**
* Analyze sexual lubricants and personal hygiene products using DART-MS and 2D-GC-MS. Additionally, we will look at environmental degradation of lubricants.

2. Quantification and Characterization of Microbial Degradation of Sexual Lubricants. **Agency: National Institute of Justice**. Amount: $150,000. Period: 8/1/16 to 7/31/19. ***Awarded**** PI: **Bridge**
* Since microbes can consume compounds as an energy source, it is necessary to determine how and identify degradation trends of lubricants that are generated from vaginal microbial exposure.

1. Forensic Science Education of Central Florida Attorneys. PI: Candice **Bridge** (Split: 100%). **Agency: Orlando Public Defender’s Office**. Amount: $49,280. Period: 6/15/2016 – 6/30/2017. ***Awarded**** PI: **Bridge**
* 1st in the department to receive this service award to educate lawyers on how forensic science can aid legal cases and develop associated website.
* [www.FloridaForensicScience.com](http://www.FloridaForensicScience.com)

**Internal UCF Grants Awarded**4. Novel Combined Method of Detection for Organic and Inorganic Gunshot Residue. **Program: Office of Undergraduate Research**. Amount: $1000. Period: 9/1/16 to 5/31/17. ***Awarded**** PI: L. Gandy\*, Q. Price, M. Sigman, **Bridge**
* Develop a simultaneous test that can analyze organic gunshot residue without adversely affecting inorganic gunshot residue analysis.

3. Microbial Degradation of Condom Lubricants. **Agency: UCF In House Research Grant.** Amount: $7,500. Period: 5/1/2016 to 12/30/2016. ***Awarded**** PI: **Bridge**
* Collect preliminary data for future research grants on microbial degradation of condom lubricants.

2. Novel Combined Method of Detection for Organic and Inorganic Gunshot Residue. **Program: Research and Mentoring Program**. Amount: $5,600. Period: 1/1/16 to 8/31/17. *Awarded* * PI: L. Gandy\*, **Bridge**
* Develop a simultaneous test that can analyze organic gunshot residue without adversely affecting inorganic gunshot residue analysis.

1. Novel Combined Method of Detection for Organic and Inorganic Gunshot Residue. **Program: Office of Undergraduate Research**. Amount: $500. Period: 9/1/15 to 5/31/16. *Awarded** PI: L. Gandy\*, **Bridge**
* Develop a simultaneous test that can analyze organic gunshot residue without adversely affecting inorganic gunshot residue analysis.

**Pending Grants**5. Prebiotic Polymers on the Early Earth and in Meteorites. **Agency: National Aeronautics and Space Administration.** Amount: $623,720. Period: 5/1/2018 – 4/30/2021. ***Pending**** PI: C. Bennet (40%)
* Co-PI: **Bridge** (30%), L. Tetard (30%)

4. The Production and Survivability of Biological Compounds within the Environment of Enceladus. **Agency: National Aeronautics and Space Administration.** Amount: $623,720. Period: 8/2/2018 – 8/1/2021. ***Pending**** PI: C. Bennet (40%)
* Co-PI: **Bridge** (30%), G. Sarid (30%)

3. Rapid Identification of Fraudulent Documents. **Agency: National Defense Science and Engineering Graduate Fellowship.** Amount: $149,066. Period: 8/1/2018 – 7/31/2022.* PI: **Bridge**

2. Comparison of Pre- and Post-Burn Smokeless Powders. **Agency: National Defense Science and Engineering Graduate Fellowship.** Amount: $149,066. Period: 8/1/2018 – 7/31/2022.* PI: **Bridge**

1. Rapid Identification of THC and THC Metabolites in Oral Fluids. **Agency: National Defense Science and Engineering Graduate Fellowship.** Amount: $149,066. Period: 8/1/2018 – 7/31/2022.* PI: **Bridge**
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| **Research proposal Reviewer** |
|  | 2017-2018: NIH, ACS (PRF), NSF2016-2017: NSF |

Teaching & Mentorship

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| **Classes taught** |
|  | *Undergraduate Courses** CHS 3501: Introduction to Forensic Science In-Person (190 seats)
* CHM 4912: Directed Independent Research In-Pearson

*Graduate Courses** CHS 6513: Quality Assurance for Forensic Scientists\* Online
* CHS 6545: Forensic Analysis of Explosives\* Online
* CHS 6546: Forensic Analysis of Ignitable Liquids\* Online
* CHM 6918: Directed Research
* CHS 6971: Thesis Research
* CHS 7919: Doctoral Research

\* I developed these courses |
| **Research Students** |
|  | **Post-Doctoral Associate*** Mark Maric, 2015-Present, Characterization and Differentiation of Water Based Lubricants

**Doctoral Research Advisees** * Danielle Green, 2015-Present, Quantification and Characterization of the Microbiome Degradation of Sexual Lubricants
* Yasmine Moustafa, 2015-Present, Characterization of Sexual Lubricants and Condoms using DART-TOFMS and 2D-GC-MS
* Jessica Kindell, 2016-Present, Rapid Detection of Forged Documents and Currency using Mass Spectrometry
* Kandyss Najjar, 2017-Present, Identification and Detection of Cosmetics Transferred during Personal Attacks
* Brooke Baumgarten, 2017-Present, Development of Lubricant Characterization and Identification Classification Scheme
* Jessica Sprague, 2017-Present, Rapid Differentiation of Metabolites that are generated from Medicinal, Recreational and Illegal Marijuana Plants
* Emily Lennert, 2017-Present, Source Determination of Smokeless Powder Organic Residue
* Kaitlin Jones, 2018-Present, DART-MS analysis of Auto Paint Samples

**M.S. Graduate Researcher Advisees*** *M. S. of Forensic Science (M.S.F.S.)*
	+ **Currently Pursuing**
		- Emily Lennert, MSFS, 2015-Present, Elemental Characterization of Post-Fired Muzzle Discharge
		- Kaitlin Jones, MSFS, 2017-Present, DART-MS analysis of Auto Paint Samples
	+ **Graduated**
		- Molly Terry, MSFS, 2014-2016, Elemental Characterization of Post-Fired Priming Residue
		- Lauren Harvey, MSFS, 2014-2016, Characterization of Silicone Based Lubricants
* *M.S. of Chemistry*
	+ Graduated
		- Nathan Schiavon, 2017, Non-Thesis Degree

**Undergraduate Research – Direct Supervision*** David Hernandez Funes, BS, 2015-2016, 1) Calibration of the DART-TOF-MS (Forensic Science) and 2) Detection of Masking Agents used in Drug Testing
* Chalynette Martinez Martinez, BS, 2015-2015, Water Based Lubricant Extraction
* Angelique Solano BS, 2015-2017, Microbial Condom Lubricant Analysis
* Lauren Gandy, BS, 2015-2017, Gunshot Residue Colorimetric Stub
* Maren Tomcsak, BS, 2016-Pres, Silicone Condom Lubricant Analysis
* Andrew DeRouin, BS, 2016-2017, Condom Dye Analysis
* Kiersten Bertsch, BS, 2016-2017, Microscopic Characterization of Smokeless Powders
* Dejanae Wallace, BS, 2016-2017, Increasing Temperature and Its Effects on Benzocaine in Anal Lubricants
* Bianca Olivieri, BS, 2016-Pres, Adulterant Effects on Drug Analysis
* Lovely Davilmar, BS, 2017, Lubricant analysis
* Taya Lennon, BS, 2017, Exit Grid Voltage Effects on Organic Compounds
* Gabriela Nevarrez, BS, 2017-Pres, Condom Evaporation
* Steve Lindsay, BS, 2017-Pres, Gunshot Residue Colorimetric Stub
* Sonia Bencomo, BS, 2017, FTIR analysis of auto paint clear coat
* Keisha Foon, BS, 2018-Pres, Determining the affects of dopants on DART analysis of lubricants

**Undergraduate Internships – Direct Supervision*** Andrea Young, BS, 2015-2016, LIBS Analysis of Post-Fired Priming Residue and Cartridge Cases
* Victoria Hadnot, BS, 2016, AAS analysis of Gunshot Residue
* Taya Lennon, BS, 2017, Exit Grid Voltage Effects on Organic Compounds

**Undergraduate Research – Co-Mentored Supervision*** Jacob Denkins, BS, 2015-2016, Atomic Absorption of Post-Fired Priming and Muzzle Residue, co-mentored with Matthew Rex (Chemistry)
* Victoria Slaughter, BS, 2015-2016, Atomic Absorption of Post-Fired Priming and Muzzle Residue, co-mentored with Matthew Rex (Chemistry)

**Undergraduate Internships – Co-Mentored Supervision*** Denise Kain, BS, 2015-2016, Metal Characteristics of Post-Fired Priming Mixtures, co-mentored with Barry Fookes (Forensic Science)
* Chris Felton, BS, 2016-2016, Atomic Absorption of Post-Fired Priming and Muzzle Residue, co-mentored with Matthew Rex (Chemistry)

**Work Study*** David Hernandez Funes, BS, 2015-2016, Calibration of the DART-TOF-MS (Forensic Science)
* Chalynette Martinez Martinez, BS, 2015-2015, Water Based Lubricant Extraction
* Bianca Olivieri, BS, 2017-Pres, Adulterant Effects on Drug Analysis
 |
| **Instructional Service** |
|  | * 2017-2018: UCF Legacy Mentor
* 2015-2018: UCF COMPASS/EXCEL mentor
* Fall 2016: UCF TRiO mentor
* Summer 2016: Invited speaker to the UCF Faculty Summer Conference (Online Teaching)
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Service

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| **Service Activities** |
|  | **Department*** Standing Committees
	+ 2016-2018: Chemistry Department Space and Facilities Committee Member
* Ad-Hoc Committees
	+ Fall 2016: Forensic Science & Statistics Professor Hiring Committee Chair
	+ Fall 2016: Chemistry Department Open Rank Faculty Hiring Committee
	+ Fall 2016: Forensic Science & College of Engineering Faculty Hiring Committee
	+ Spring 2015: Forensic Science Chemistry Professor Hiring Committee Member
	+ Fall 2015: Forensic Science & Statistics Professor Hiring Committee Member
	+ Fall 2015: Chemistry Department Chair Hiring Committee Member
	+ Fall 2015: Digital Evidence Professor Hiring Committee Member

**College*** Standing Committees
	+ 2015-2017: College of Sciences Graduate Curriculum & Standards Committee
* Ad-Hoc Committees
	+ Spring 2017: College of Science Dean’s 5 Year Review Committee Member
	+ Spring 2016: Developed NCFS Speaker Series
* 2015: Developed forensic education programs for the UCF STEM Day
* 2015-2016: Developed and Managed Speaker Series for the Community on “Statistics, Science and the Law” for local attorneys, forensic scientists and the local community.

**University*** Sp ’16: Member of the COACHE Sub-Committee on Promotion and Tenure
* Sp ’15: Lead a new Faculty Cluster Hire Group on Cognitive Bias in the Criminal Justice System

**Professional*** Sp ’18: Conference Session Chair for Florida ACS Meeting and Exposition
* Fa ’17: Conference Session Chair for SciX 2017
* Fa ’16: Developed DART-MS Demo Day for Orlando Health Medical Community
* Su ’16: Developed DART-MS Demo Day for Forensic Crime Labs
* Sp ’16: Conference Session Chair for Forensic Science at the American Society for Mass Spectrometry Conference
* Proposal Reviewer Request:
	+ ’17-’18: NIH, ACS (PRF), NSF
	+ ’16-’17: NSF

**Editorial Journal Reviews*** 2017-2018: Forensic Chemistry; Analytical Chemistry; Forensic Science International; Analytical Methods
* 2016-2017: Science & Justice; Analytical Chemistry; Forensic Science International; Forensic Chemistry
* 2015-2016: National Institute for Standards and Justice; Science & Justice, Drug Testing & Analysis, Forensic Chemistry, Forensic Science International
* 2014-2015: Analytical Methods; Journal of Forensic Sciences

**Outreach*** Fa ’17: Invited to participate on the
* Sp ’17: Delta Sigma Theta’s The Aha! Moment – Exploring Traditional and Non-Traditional Careers (Apr 16, 2017)
* Fa ’16: Invited Speaker for the GEMS Program
* Su ’16: Participated in the UCF Prime STEM Career Academy Reception
* Su ’16: Participated in the NOBCChE Science Bowl at UCF
* Su ’16: Developed an Instrument Demonstration Day for local forensic crime laboratories to introduce to the DART-MS
* Sp ’16: Invited Speaker for the LIFE at UCF Program
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