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**Tracy Gastineau**

**EXPERIENCE**

* **Harris County Institute of Forensic Science:** Houston, TX June 2014-July 2016

*Toxicology Technician*

* + - Organizes and maintains laboratory and equipment
		- Partook in medicolegal toxicology investigations by liquid-liquid extractions of biological specimens and data review
		- Troubleshoot, maintain, and run LC-MS/MS instruments including ABI and Agilent with Analyst and MassHunter Data Processing
* **Sam Houston State University**: Huntsville, TX August 2012-May 2014

*Graduate/Research Assistant*

* Organized and maintained labs
* Ordered equipment
* Assisted and taught laboratory classes
* Worked independently on a research capstone project that includes GC/MS and LC-MS/MS
* **Dallas County Institute of Forensic Sciences**: Dallas, TX May-August 2013

*Toxicology Intern*

* Assisted and observed toxicologists
* Worked independently on multiple projects using LC-MS/MS, GC/FID, and GC/MS/FID
* Observed courtroom testimony
* **PropTester, Inc.**: Cypress, TX August 2011-August 2012

*Conductivity Technician*

* Laboratory technician
* Ran tests on oil well proppants
* Helped maintain and troubleshoot equipment and laboratory
* **Houston Baptist University**: Houston, TX August 2010-May 2011

*Welch Scholar Research Assistant*

* Ran biochemical research based on protein solubilities
* Used UV-VIS spectroscopy and general chemistry techniques
* **Houston Baptist University**: Houston, TX August 2008-December 2010

*Teacher Assistant*

* Organized and maintained laboratories
* Lead and taught chemistry based laboratories

**EDUCATIONAL EXPERIENCE**

* Sam Houston State University Huntsville, Texas January 2013-May 2013

***Forensic Toxicology***

* + Careful observation and implementation of all safety procedures
	+ Solution preparation (including serial dilutions, spiking samples, and elution solvents), qualitative drug identification, and quantitative drug identification
	+ Solid phase extraction of basic drugs in urine and alternative matrices
	+ Liquid-liquid extraction of basic drugs
	+ Method validation
	+ GC/MS analysis of extracted drugs using the HP 5975 MSD 6890 GC
	+ Familiar with Chemstation software for data analysis
* Sam Houston State University Huntsville, Texas August 2012-December 2012

***Forensic Instrumental Analysis***

* + Observed and followed all safety procedures.
	+ Sample preparation (including serial dilutions), analysis of unknowns, and laboratory clean-up (including proper chemical disposal).
	+ Headspace Gas Chromatography and Gas Chromatography/Mass Spectroscopy
	+ Ultraviolet-visible Spectroscopy
	+ Fourier Transform Infrared Reflectance
	+ Solid Phase Micro Extraction-GC-NPD
	+ Ion-Mobility Spectroscopy
	+ Used Microsoft Excel to analyze data.
* Houston Baptist University Houston, Texas January 2011-May 2011

***Modern Analytical Techniques***

* + Observed and followed all safety procedures.
	+ Sample preparation (including serial dilutions), analysis of unknowns, and laboratory clean-up (including proper chemical disposal).
	+ Gas Chromatography
	+ High-Performance Liquid Chromatography
	+ Ultraviolet-visible Spectroscopy
	+ Capillary Electrophoresis
	+ Quartz-crystal Microbalance
	+ Used Microsoft Excel to analyze data
* Houston Baptist University Houston, Texas January 2010-May 2010

***Quantitative Chemistry***

* + Performed serial dilutions
	+ Performed wet chemistry
	+ Used Microsoft Excel to analyze data and create graphs.

### EDUCATION

* Sam Houston State University Huntsville, Texas August 2012-May 2014

***Master of Science***

* + Forensic Science
	+ Expected Graduation: May 2014
	+ Overall GPA: 4.0
	+ Relevant Courses: Forensic Instrumental Analysis, Forensic Pattern and Physical Analysis, Crime Scene Processing, Forensic Toxicology, Forensic Biology, Trace Evidence, Controlled Substances, Neuropsychopharmacology, and Law And Forensic Sciences
	+ Current Courses: Drugs and Toxins, Seminar, Capstone, and Quality Assurance and Ethics
* Houston Baptist University Houston, Texas August 2007-May 2011

***Bachelor of Science***

* + Major: Biology
	+ Major: Chemistry
	+ Graduation: May 2011
	+ Overall GPA: 3.40
	+ Relevant Courses: General Biology I, II, and III, Genetics, Microbiology, Embryology, General Physiology, Advanced Cell Biology, Biology Senior Seminar, General Chemistry I and II, Organic Chemistry I and II, Advanced Organic Chemistry, Quantitative Analysis, Modern Analytical Techniques, Physical Chemistry I, and Chemistry Senior Seminar

**INTERESTS AND ACTIVITIES**

* Member and Vice President of The Society of Forensic Science
* Member of the American Academy of Forensic Science

**HONORS AND AWARDS**

* Welch Scholar Research, August 2010-May 2011
* Alpha Chi Honor Society, August 2009-May 2011
* Presidential Student Award, March 2010

**Presentations**

* Two-Month Stability Study and Postmortem Distribution of the Benzodiazepine Phenazepam, American Academy of Forensic Sciences Seattle, Washington 2014
* Detection of Salvinorin A and Salvinorin B in Toxicology Samples, Capstone Research, Sam Houston State University August 2013-May 2014