

Current Address

Crime Stopper Email:

Permanent Address

| | | |
|----------------------------|---|--|
| Profile | Forensic biologist with experience in both nuclear and mitochondrial DNA analysis, along with serological techniques. Particular expertise in real-time PCR and handling poor quality and low copy number DNA. Completed coursework in DNA profiling, serology, molecular biology, biochemistry, population genetics, and statistics. | |
| Education | <i>Michigan State University</i> <u>Expected August 2008</u> M.S. Forensic Science <ul style="list-style-type: none">◆ <u>Area of Concentration:</u> Forensic Biology◆ <u>Relevant Coursework:</u> DNA Profiling, Serology, Molecular Biology, Conservation Biology and Population Genetics, Statistics for Biologists, Issues in Forensic Science, Forensic Chemistry, Introduction to Forensic Science,◆ <u>Activities:</u> Laboratory Assistant, Graduate Teaching Assistant, Assistant Hall Director, Sports Camp Assistant Coordinator, St. John's Catholic Church Music Ministry, Advisor for Shaw Hall Senate◆ <u>Cumulative GPA:</u> 3.800 <i>University of Arizona</i> <u>May 2006</u> B.S. Biochemistry and Molecular Biophysics & Molecular and Cellular Biology <ul style="list-style-type: none">◆ <u>Relevant Coursework:</u> Molecular Biology, Biochemistry, Biochemistry Lab Techniques, Genetics, Cellular Biology, General Biology, Physical Chemistry, Organic Chemistry, General Chemistry◆ <u>Activities:</u> Biochemistry Peer Mentor, Biochemistry Technique Lab Preceptor, Laboratory Assistant, Co-Founder of Women in Biological Sciences Organization, Leader of a St. Thomas Moore Catholic Newman Center Choir, National Residence Hall Honorary, Resident Assistant Council◆ <u>Honors:</u> Academic Distinction (2002-2005)◆ <u>Cumulative GPA:</u> 3.729 | |
| Forensic Experience | <i>Forensic Science Research Assistant</i> <u>August 2006 to Present</u> <i>Michigan State University (East Lansing, Michigan)</i> <ul style="list-style-type: none">◆ Perfected an ultra sensitive assay to determine sex using real-time PCR, particularly from aged and low quality DNA◆ Performed identification of dog hairs from tape lifts submitted as evidence.◆ Completed DNA extraction and mitochondrial sequencing from canine buccal swabs and skeletal remains of a foot submitted as evidence◆ Assisted as a consult in an alleged sexual assault case | |
| Research Experience | <i>Laboratory Assistant</i> <u>August 2005 to May 2006</u> <i>University of Arizona (Tucson, Arizona)</i> <ul style="list-style-type: none">◆ Facilitated dissections of the <i>Manduca sexta</i> to be further analyzed through spectropic techniques to be used for grant proposals◆ Maintained an accurate account of the data collected from analysis in a Microsoft Excel spreadsheet◆ Investigated through outside resources more effective methods for research and conveyed them to the current primary investigator <i>Laboratory Assistant</i> <u>May 2005 to August 2005</u> <i>USDA Cotton Research Laboratory (Tempe., Arizona)</i> <ul style="list-style-type: none">◆ Prepared samples for ELISA assays with appropriate antibodies◆ Collected specimens from the cotton field and identified insects present◆ Maintained insect colonies by cleaning cages, preparing diet, and rearing insect nymphs | |
| Teaching Experience | <i>Graduate Teaching Assistant</i> <u>August 2007 to May 2008</u> <i>Michigan State University (East Lansing, Michigan)</i> <ul style="list-style-type: none">◆ Developed lesson plans and assignments to enhance learning of biological sciences for several lab courses◆ Supervised activities during lab procedures, monitored student safety, and responded to emergencies◆ Maintained communication with the Biological Sciences lab coordinator and prep staff <i>Head Swim Coach and Aquatics Employee</i> <u>May 2004 to August 2006</u> <i>Dobson Ranch Association (Mesa, Arizona)</i> <u>April 2000 to March 2004</u> <i>City of Mesa Aquatics (Mesa, Arizona)</i> | |

Each team consisted of approximately 200 participants, ranging in ages 5 to 18.

- ◆ Organized swim practices and meets through delegation to assistant swim coaches, planned workouts, and maintaining paperwork and individual statistics.
- ◆ Trained participants in proper stroke technique and racing styles along with providing moral support for the swimmers regarding swimming and personal accomplishments
- ◆ Maintained public relations with the City of Mesa Aquatics, the Dobson Ranch Association, Dobson Dolphins Committee, pool staff, parents and participants of the swimming program.
- ◆ Monitored the safety of the patrons by surveillance of the pool area, CPR and First Aid certification, and performing care to the necessary patrons.

Undergraduate Biochemistry Preceptor

August 2005 to December 2005

University of Arizona (Tucson, Arizona)

- ◆ Prepared the teaching lab before class with necessary reagents and equipment used in common Biochemical protocols
- ◆ Answered questioned asked by students during lab time and office hours
- ◆ Assisted the professor in errands necessary for the completion of daily experiments

**Leadership
and
Administrative
Experience**

Sports Camp Assistant Coordinator

May 2007 to Present

Michigan State University (East Lansing, Michigan)

- ◆ Assisted the Sports Camp Coordinator with training and professional development for camp assistants
- ◆ Assigned duties to camp assistants, supervised activities implemented for camp participants
- ◆ Monitored the safety of campers in the building, upheld Michigan State University and MSU Athletics regulations, policies, and procedures, and assisted staff in mediation and confrontational situation

Assistant Hall Director

August 2006 to August 2007

Michigan State University (East Lansing, Michigan)

- ◆ Supervised seven communities and mentors within a residence hall, organized meetings for staff and created training sessions about responsibilities and CORE values.
- ◆ Supervised hall government and created training sessions related to their position
- ◆ Maintained public relations with the Department of Residence Life, Housing and Food Services, the community of East Lansing and Michigan State University
- ◆ Monitored the safety of students in the building, upheld Housing policies, and assisted mentors in mediation and confrontational situation

Resident Assistant

August 2004 to May 2006

University of Arizona (Tucson, Arizona)

- ◆ Created and implemented programs to build a strong community and offer educational opportunities based on the needs of residents
- ◆ Mediated roommate and community conflict situations and documented violation of community standards throughout the residence hall

President of Resident Assistant Council

May 2005 to May 2006

University of Arizona (Tucson, Arizona)

- ◆ Organized weekly meetings with both the general body of hall representatives and executive board members to discuss Residence Life issues relevant to Resident Assistants
- ◆ Served as a spoke person for the general body of Residents Assistants to both Residence Life and the University of Arizona
- ◆ Delegated tasks to other Executive Board members regarding the organization's committees and proposals

Co-Leader of St. Thomas More Catholic Newman Center Choir

August 2003 to May 2006

University of Arizona (Tucson, Arizona)

- ◆ Researched and organized appropriate music for the following Sunday mass
- ◆ Facilitated choir practice to learn the music for the upcoming weekend service
- ◆ Taught and lead the congregation of the Newman Center in song during the Sunday mass

Desk Assistant

August 2004 to May 2006

University of Arizona (Tucson, Arizona)

- ◆ Responsible for sorting and delivering mail to residence of the hall.
- ◆ Greeted residents and guest at the front desk and provided information regarding the city of Tucson and University information.
- ◆ Maintained the security for the building through hall access and key distribution

Office Assistant

May 2004 to August 2006

JMI Southwest Insurance (Mesa, Arizona)

- ✦ Assisted the Assistant Director of Hall Operations and Student Staff Recruitment and Training
- ✦ Created an itemized budget for Hall Operations, Supplies, Training, and Resident Assistant Council in a Microsoft Excel Spreadsheet and maintained a record of transactions
- ✦ Responsible for data entry of new Desk Assistant and Resident Assistant interviews and evaluations using Microsoft Office

Memberships

American Academy of Forensic Sciences
 Student Affiliate
National Residence Hall Honorary
 Omega Eta Lambda Chapter

**Papers
 and
 Presentations**

- ✦ **Crime stopper**. 2006. The relationship between triacylglycerides in the fat body of the *Manduca sexta* and the critical weight. B.S. thesis. University of Arizona.
- ✦ **Crime stopper** 2008. DNA extractions from bodily hair, fluids, and other tissues. Encyclopedia of Forensic Sciences. Salem Press. In Press.
- ✦ **Crime stopper** 2008. A highly sensitive sex determination assay for low quality DNA. The American Academy of Forensic Sciences Annual Meeting, Feb 2008, Washington DC.

References

Dr.
Dr.
Dr.
Ms.