

**Curriculum Vitae**

Nicole P. Morales  
Forensic Scientist V

**Professional Experience**

- 1/2013 – Present      **Forensic Scientist, Bexar County Criminal Investigation Laboratory, San Antonio, Texas:**  
This position involves the identification and analysis of forensic evidence for the possible presence of blood, semen, and saliva, utilizing presumptive and confirmatory chemical tests and microscopic examinations, as well as Short Tandem Repeat (STR) DNA analysis. This position involves writing scientific reports, frequent contact with law enforcement personnel and attorneys, and providing expert testimony in a court of law.
- 12/2021 – Present      **Adjunct Professor, Texas A&M University San Antonio, San Antonio, TX**  
This position involves teaching an Introduction to Forensic Science course for the Dept. of Criminology and Criminal Justice at TAMUSA.
- 12/2015 – Present      **Adjunct Professor, University of Texas at San Antonio, San Antonio, TX**  
This position involves teaching an Introduction to Forensic Science course for the Dept. of Criminology and Criminal Justice at UTSA.
- 10/2010 – 12/2012      **Senior Research Assistant, University of Texas Health Science Center, San Antonio, Texas:**  
This position involved DNA extraction and purification from human tumor tissue, PCR (Polymerase Chain Reaction), gel electrophoresis and research within the field of cancer genetics. Mice models were also utilized for *in vivo* studies.
- 6/2010 – 9/2010      **DNA Analyst, DNA Reference Laboratory, San Antonio, Texas:**  
This position involved DNA extraction and purification, PCR (Polymerase Chain Reaction), and subsequent sequencing of DNA for paternity testing purposes.
- 8/2008 – 5/2010      **Teaching Assistant, Sam Houston State University, Huntsville, TX**  
This position involved setting up, teaching, and monitoring laboratory experiments in trace evidence analysis and bloodstain pattern analysis, as well as grading papers and administering examinations.
- 2/2005 – 6/2007      **Laboratory Technician, University of Nevada, Reno, Reno, NV**  
This position involved PCR (Polymerase Chain Reaction), gel electrophoresis and subsequent sequencing of the pig genome.

**Academic Background**

2010 - Master of Science, Forensic Science  
Sam Houston State University, Huntsville, TX

2008 - Bachelor of Science, Biochemistry  
University of Nevada, Reno, Reno, NV

**Publications**

- Liu WS, Yasue H, Eyer K, Hiraiwa H, Shimogiri T, Roelofs B, Landrito E, Ekstrand J, Treat M, Paes N, Lemos M, Griffith AC, Davis ML, Meyers SN, Yerle M, Milan D, Beever JE, Schook LB, Beattie CW. High-resolution comprehensive radiation hybrid maps of the porcine chromosomes 2p and 9p compared with the human chromosome 11. *Cytogenet Genome Res.* 2008;120(1-2):157-63.
- Rebecca Girardet, MD, Kelly Bolton, RN, Sheela Lahoti, MD, Hillary Mowbray, MD, Angelo Giardino, MD, Reena Isaac, MD, William Arnold, MBA, Breanna Mead, MS, and Nicole Paes, MS. Collection of Forensic Evidence From Pediatric Victims of Sexual Assault. *Pediatrics.* 2011;128(2):233-238.
- Nelly Burnichon, Alberto Cascon, Francesca Schiavi, et al. MAX mutations cause hereditary and sporadic pheochromocytoma and paraganglioma. *Clin Cancer Res* Published OnlineFirst March 27, 2012.
- Toledo RA, Qin Y, Srikantan S, Morales NP, Li Q, Deng Y, Kim SW, Pereira MA, Toledo SP, Su X, Aguiar RC, Dahia PL. In vivo and in vitro oncogenic effects of HIF2A mutations in pheochromocytomas and paragangliomas. *Endocr. Relat. Cancer.* 2013 May 21;20(3):349-59.

**Presentations**

- 2010            The application of mini-STRs to low-copy number forensic samples  
American Academy of Forensic Science  
Meeting in Denver, CO
- The collection of forensic evidence from prepubescent victims of sexual assault  
American Academy of Forensic Science  
Meeting in Denver, CO

**Continuing Education/Training**

- |      |                                    |      |                                       |
|------|------------------------------------|------|---------------------------------------|
| 2014 | AFDAA Winter Workshop – Austin, TX | 2021 | AFDAA Spring Workshop – Virtual       |
| 2015 | AFDAA Winter Workshop – Austin, TX | 2021 | AFDAA Summer Meeting – Virtual        |
| 2016 | AFDAA Winter Workshop – Austin, TX | 2021 | Human Factors Training – Virtual      |
| 2017 | AFDAA Summer Meeting – Austin, TX  | 2021 | CODIS Conference – Virtual            |
| 2018 | AFDAA Winter Meeting – Austin, TX  | 2021 | NIST Mixture Review                   |
| 2018 | STRmix Training – San Antonio, TX  | 2022 | AFDAA Spring Workshop – Virtual       |
| 2020 | AFDAA Winter Meeting – Austin, TX  | 2022 | CODIS Conference – Virtual            |
| 2019 | AFDAA Summer Meeting – Houston, TX | 2023 | AFDAA Winter Workshop – Austin, TX    |
| 2020 | CODIS Conference – Virtual         | 2024 | FBI QAS and Auditor Training - Online |
| 2020 | HIDS Virtual Conference - Virtual  |      |                                       |

**Licensing/Certifications**

Certified Texas Forensic Analyst, Forensic Biology/DNA, Texas Forensic Science Commission, December 2022 – December 2024

Certified Molecular Biology Diplomate, American Board of Criminalistics, November 2019 – July 2025