

<u>4125 Market Street, Suite 3 • Ventura, CA 93003 • 805.677.2155 • fax.805.676.1638</u>

<u>Professional Vita</u> Jessica E. Bickham

Formal Education

Master of Arts in Molecular, Cellular, and Developmental Biology; University of California, Santa Barbara (UCSB), Santa Barbara, CA, 2003. *Thesis*: "Development of an Animal Model to Study Urinary Tract Infections, and the Identification of Factors That May Play Roles in *Escherichia coli* Intestinal Colonization"

Bachelor of Science in Cell & Structural Biology; University of Illinois at Urbana-Champaign, Urbana-Champaign, IL, 1999

Professional Meetings, Workshops, and Specialized Courses

- National Institute of Justice Forensic Technology Center of Excellence (NIJ FTCE): Forensic Genealogy and its Application in Solving Cold Cases; September 2020
- NIJ FTCE: Arguing the Case for DNA Evidence Based on Probabilistic Genotyping; September 2020
- NIJ FTCE: Probabilistic Genotyping of Evidentiary DNA Typing Results An Online Workshop Series; May-July 2019
 - Probabilistic Genotyping Software and Output
 - Validation of Probabilistic Genotyping Systems for Casework Usage
 - Uncertainty and Limitations of Probabilistic Genotyping Systems
 - Probabilistic Genotyping Summation and Special Topics
- Midwestern Association of Forensic Scientists (MAFS): Analyzing Challenging and Familial Mixtures with TrueAllele Casework System; 18 September 2018
- MAFS: Advanced Y-STR Interpretation; 17 September 2018
- Mid-Atlantic Association of Forensic Scientists (MAAFS): Beyond Nuclear DNA: Mito/Y-STRs/SNPs Implementation in Casework Laboratories, Ethics in Forensic Science; 24 May 2017
- ThermoFisher Applied Biosystems Webinar: "Policy and Legislative Considerations for Next Generation Sequencing (NGS) in the Forensic Laboratory"; 16 November 2016
- MAFS: Y-STR analysis & typing and Interpreting Y-STR Evidence; 3 October 2016

www.tai-labs.com

- National Institute of Standards and Technology (NIST) DNA Analyst Webinar Series: Validation Concepts and Resources Part 1; 6 August 2014
- NIST DNA Analyst Webinar Series: Probabilistic Genotyping and Software Programs Part 1; 28 May 2014
- California Association of Criminalists (CAC): DNA Workshop, Fall Seminar; 2013
- CAC: DNA Workshop, Spring Seminar; 2012
- CAC: DNA Workshop, Fall Seminar; 2011
- CAC: Advanced DNA Mixture Interpretation Workshop; December 2010
- CAC: DNA Workshop and General Meeting, Spring Seminar; 2010
- Forensic Science for the 21st Century: The National Academy of Sciences Report and Beyond; 2009
- The Science of DNA Profiling: A National Expert Forum, Forensic Bioinformatics Annual Conference; 2008
- CAC: DNA Workshop and General Meeting, Fall Seminar; 2007
- Population Statistics and Forensic DNA Analysis: course by Dr. George Carmody, Seattle, WA; 2006
- Science in the Courtroom for the 21st Century: Issues in Forensic DNA; 2006
- DNA From Crime Scene to Court Room: An Expert Forum, Forensic Bioinformatics Annual Conference; 2006
- Applied Biosystems HID University: Future Trends in Forensic DNA Technology; 2006
 - Practical STR Statistics Workshop
 - GeneMapper ID Software Verification Workshop
- CAC: DNA User's Group and General Meeting, Fall Seminar; 2005
- Promega: International Symposium on Human Identification; 2004
 - Low Copy Number DNA Analysis and Sample Screening Workshop
 - Parentage and Mixture Statistics Workshop
- Applied Biosystems: Future Trends in Forensic DNA Technology; 2004

Occupational History

| 2008 – | Assistant Laboratory Director, Technical Associates, Inc., Ventura, CA |
|-------------|---|
| 2008 - | Senior Forensic Scientist, Technical Associates, Inc., Ventura, CA |
| 2006 – | Assistant Technical Lead/Technical Manager, Technical Associates, Inc., Ventura, CA |
| 2003 – 2008 | Forensic Scientist, Technical Associates, Inc., Ventura, CA |
| 1999 – 2003 | Molecular geneticist research graduate student, UCSB, Department of Molecular, Cellular & Developmental Biology, Dr. David Low's laboratory |

| 1996 – 1999 | Summer Intern, Motorola Inc. Control Centers Department, Schaumburg, IL (1996, 1997, 1999) |
|-------------|---|
| 1998 | Summer Intern, Motorola Inc. BioChip Systems, Tempe, AZ |

Teaching Projects

2000 – 2003 Teaching Assistant in Molecular Genetics, Teaching Assistant in Immunobiology, Teaching Assistant in The Immune System & AIDS, UCSB

Publications and Presentations

| 2013 | "Molecular Biology in Forensic Science", Westmont College, Montecito, CA |
|------|--|
| 2011 | "Molecular Biology in Forensic Science", Westmont College, Montecito, CA |
| 2010 | "Molecular Biology in Forensic Science", Westmont College, Montecito, CA |
| 2009 | "Molecular Biology in Forensic Science", Westmont College, Montecito, CA |
| 2008 | "Molecular Biology in Forensic Science", Westmont College, Montecito, CA |
| 2007 | "Biology in Forensics", Bioscience Academy, Ventura, CA |
| 2007 | "Biology in Forensics", Carpinteria High School, Carpinteria, CA |
| 2007 | "Molecular Biology in Forensics", Westmont College, Montecito, CA |
| 2006 | "How to Investigate a Case that has DNA Evidence", National Defender |
| | Investigator Association National Conference, San Francisco, CA |
| 2006 | "DNA in Forensics", Bioscience Academy, Ventura, CA |
| 2005 | Aoki, S. K., Pamma, R., Hernday, A. D., Bickham, J. E., Braaten, B. A., Low, D. A. |
| | "Contact-Dependent Inhibition of Growth in Escherichia coli"; Science 309, 1245 |
| | (2005) |
| 2005 | "DNA in Forensics", University of California, Santa Barbara |
| 2005 | "DNA in Forensics", Bioscience Academy, Ventura, CA |
| 2005 | "DNA in Forensics", Buena High School, Ventura, CA |
| 2005 | "DNA in Forensics", Ventura College, Ventura, CA |
| 2004 | "DNA in Forensics", University of California, Santa Barbara |

2004 "DNA in Forensics", Ventura College, Ventura, CA

Awards and Honors

2003 Outstanding Teaching Award, University of California, Santa Barbara