



NAME:	Jihau Yu	DATE:	10/11/2024
LABORATORY:	Houston Forensic Science Center		
JOB TITLE:	Forensic Scientist		

Indicate all disciplines in which you do casework:

<input type="checkbox"/>	Seized Drugs	<input type="checkbox"/>	Forensic Biology/DNA
<input type="checkbox"/>	Crime Scene	<input type="checkbox"/>	Latent Prints
<input type="checkbox"/>	Digital Forensics	<input checked="" type="checkbox"/>	Toxicology
<input type="checkbox"/>	Firearms	<input type="checkbox"/>	Forensic Audio/Video

List all categories or sub-disciplines in which you do casework:

Analysis of alcohol and volatiles, Human Performance Toxicology

Texas Forensic Science Commission (TFSC) Licensing

Per TFSC section 651.203, starting January 1, 2019, the following disciplines are subject to licensing: Seized Drugs, Toxicology, Forensic Biology & Firearms/Toolmarks. If applicable, select the type of license issued by TFSC (Select N/A if not applicable):

Type of License:	Toxicologist (Interpretative)
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Certifications:

Organization	Discipline	Type/Level (N/A if not applicable)

Education:

List all higher education institutions attended (list high school if no college degree has been attained)

Institution	Dates Attended	Major	Type of Degree Earned
The University of Texas at Austin	08/2016-05/2020	Chemistry	Bachelor of Science
University of California at Davis	09/2020-12/2022	Pharmacology and Toxicology	Master Degree

Other Training:

List continuing education, workshops, in service, and other formal training received. Please include the course title, source, and dates of training.

Internal Auditor Training – Houston Forensic Science Center, March 2024 Advanced Roadside Impaired Driving Enforcement (ARIDE) Training – Houston Police Department, November 2023



Drug Harm Reduction - New Forensic Toxicology Approaches, – California Association of Toxicologists Biannual Meeting, May 2023

Courtroom Experience:

List the disciplines/sub-disciplines in which you have testified as an expert witness and indicate over what time period and approximately how many times you have testified in each.

Discipline or Sub-Discipline	Time Period	Times Testified

Professional Affiliations:

List any professional organizations of which you are or have been a member. Indicate any office(s) or positions held and the dates of these activities.

Organization	Member Status & Position(s) Held	Dates of Membership
Society of Forensic Toxicologists	Associate Member	10/2024-Present

Employment History:

List all scientific or technical positions held, particularly those related to forensic science. List current position first. Be sure to indicate employer and give a brief summary of duties. Please list your dates of employment by month and year.

Job Title:	Forensic Scientist	Dates of Employment:	04/2024 - Present
Employer:	Houston Forensic Science Center		
Provide a brief description of duties below:			
Perform headspace analysis on chemical instrumentation to detect alcohol and other volatiles in biological matrix and liquid. Review data and draft reports on findings. Testify as an expert witness on analytical results, procedures, and scientific conclusions from analysis.			

Job Title:	Forensic Scientist Trainee	Dates of Employment:	10/2023-04/2024
Employer:	Houston Forensic Science Center		
Provide a brief description of duties below:			
Training in the analysis of blood and liquid samples for the presence of alcohol and other volatiles using Headspace GC-FID, training in use of toxicology section equipment, and studying for Texas Forensic General Forensic Analyst Licensing Exam			

Job Title:	Forensic Toxicologist	Dates of Employment:	12/2022-08/2023
Employer:	San Francisco Medical Examiner’s Office		
Provide a brief description of duties below:			
Validated a 265 Novel Synthetic Opioid method in blood and urine by LC MS/MS and performed retro analysis on 617 cases with the previously mentioned method.			

Job Title:	Intern	Dates of Employment:	06/2019-08/2019
Employer:	San Francisco Medical Examiner’s Office		
Provide a brief description of duties below:			



Performed a vitreous humor dilution integrity study with BioProfile pHox Analyzer. Ensured library drug names matched drug names designated by the San Francisco Medical Examiner's Office.

Other Qualifications:

List below any scientific papers authored or co-authored and/or scientific presentations given, research in which you have been involved, academic or teaching positions you have held, and any other information you consider relevant to your qualification as a forensic scientist.

Publication:

Diekhans K, Yu J, Farley M, Rodda LN. Analysis of over 250 novel synthetic opioids and xylazine by LC-MS-MS in blood and urine. *J Anal Toxicol*. 2024 Mar 28;48(3):150-164. doi: 10.1093/jat/bkae009.

Jihau Yu, Katie Diekhans, Anson Tsang, Luke N Rodda, Fluorofentanyl and novel synthetic opioids in accidental overdose deaths, *Journal of Analytical Toxicology*, 2024; <https://doi.org/10.1093/jat/bkae062>

Research:

Vitreous Humor dilution integrity study with BioProfile pHox Analyzer
Validation of Novel Synthetic Opioid Method in blood and urine by LC MS/MS
Retro Analysis for Novel Synthetic Opioid of 2022 San Francisco Accidental Overdoses