



**Statement of Qualifications**  
**2/14/2025**

Cheryl Kim Straub-Lopez, Forensic Toxicology Consultant

**Areas of Experience:**

Blood Drug Toxicology

Blood and Breath Alcohol

Human Performance Toxicology

**Analytical Methods used**

Blood drug toxicology LC-MSMS \ LC-MSMS-QTOF  
Blood drug toxicology GC-MSMS  
Blood drug screening (ELISA)  
Blood alcohol analysis (Headspace gas chromatography; FID)  
Intox 8000  
Expert court testimony  
Instrument Maintenance

**Education:**

Institution	Dates Attended	Major	Degree Completed
University Of Florida	2010-2012	Forensic Toxicology	Graduate Certificate Program In Forensic Toxicology
University Of Arizona	2004-2006	Microbiology	BS
Pima Community College	2002-2004	Pre-Pharmacy	AS

**Employment History:**

Job Title	Forensic Scientist IV	Tenure	12/03/2011 - 02/14/2025
Employer	Department Of Public Safety Southern Regional Crime Lab		

**Brief description of principal duties:**

- Examine and evaluate blood evidence for the presence of drugs and alcohol utilizing chromatographic techniques and instrumentation to include gas chromatography FID, gas chromatography-mass spectrometry, liquid chromatography-mass spectrometry/TOF and immunoassay.
- Prepare technical written reports in order to document scientific analyses and results.
- Attend pre-trial conferences and provide expert testimony courts throughout the state.
- Discuss laboratory test results and evidence collection with officers, attorneys and courts.
- Remain current on scientific advancements in the forensic field through technical publications, presentations and training in order to apply appropriate methodologies.
- Provide technical advice and guidance to other forensic scientists with difficult analyses.
- Train new Forensic Scientists I in laboratory methodology and in skills required to attain courtroom qualification.

Job Title	Criminalist	Tenure	Oct. 2007 - Dec. 2 2011
Employer	Tucson Police Department Crime Lab		
Provide a brief description of principal duties			
Blood and Breath Alcohol Analysis			
Expert court testimony			
Instrument Maintenance			
Lab Safety Officer			

Job Title	Research Engineering Assistant	Tenure	May 2007 to Sept. 2007
Employer	Ventana Medical		
<b>Provide a brief description of principal duties:</b> Hematoxylin and Eosin automated staining instrument. Troubleshooting of instrument and reagent failures			

**Testimony**

<b>Discipline/Category of Testimony</b>	<b>Approximate Number of Times Testified</b>
Breath alcohol analysis	100
Blood alcohol analysis	350
Blood drug analysis	100

**Continuing Education:**

<b>Course Title</b>	<b>Source of Training</b>	<b>Date(s) of Training</b>
Agilent LCMS Q-TOF User Training	Agilent	8/28/23-9/01/23
QTOF training	DPS CRCL	10/21//2020-10/23/2020
Eliminate the Fear Factor Hands on Workshop HPLC\LCMS	Agilent	3/10/2020
Advanced Roadside Impaired Driving Enforcement (ARIDE)	DPS Tucson	4/10/2019-4/11/2019
DUI-High-Taking a closer Look at Marijuana Impaired Driving	webinar	12/18/2018
Postmortem Interpretive Toxicology	The Center For Forensic Science Research & Education	4/23/2018-4/26/2018
Ultra-Fast High Res LC-MS Analysis in Forensic Tox Testing	RTI International	02/28/2018
Forensic Pharmacology	The Center for Forensic Science Research and Education	12/12/16-12/14/16
Webinar "Chemistry of Addiction"	American Chemical Society	11/12/2015
The Effects of Drugs on Human Performance and Behavior	The Robert F. Borkenstein Center for Studies of Law in Action	09/22/14-09/26/14
Agilent breaks the productivity barrier to bring you high performance to your	Agilent Technologies,	10/17/13

GC or LC instrument		
Fundamentals of LC/MS/MS	American Association for Clinical Chemistry Inc. (AACC) Online course	08/19/2013
How to Be a Good Expert Witness	UNM School of Medicine online course	09/27/2012
Uncertainty of Measurement; Presented by Mark Ruefenacht	Forensic Science Lecture Series Spring 2012	05/2012
Advanced Testimony Workshop	FBI Lab Division	01/2011
The Southern Association of Forensic Scientists, The Midwestern Association of Forensic Scientists, The Mid Atlantic Association of Forensic Scientists, The Mid-Atlantic Association of Forensic Scientists, The Southwestern Association of Forensic Scientists Joint Meeting		10/2009
Mass Spectrometry Workshop	University of Arizona, Chemistry Department	06/2009
Time Management Seminar	City of Tucson	07/2008
Intoxilyzer 8000 Quality Assurance Specialist Course	Tucson, AZ	05/2008
Courtroom Testimony Techniques	Ron Smith & Associates, Inc.	05/2008
Robert F. Borkenstein Course on Alcohol	Robert F. Borkenstein	05/2008
Alcohol Drinking Workshop Tucson Police Department, Tucson Crime Lab, AZ	Tucson Police Department, Tucson Crime Lab, AZ	04/2008

2008- EMIT vs. ELISA	Tucson Police Department Crime Lab	03/2008
Ignition Interlock Devices	Tucson police Department Crime Lab	03/2008
CPR and First Aid Training	TPD Main Station, Tucson, AZ	03/2008
Intoxilyzer 8000 Operator Course	TPD Training Academy, Tucson, AZ	12/2007