

EDUCATION

- B.S. Biology & B.S. Chemistry 08/11-05/15
 - University of Texas at Brownsville (Now University of Texas Rio Grande Valley)

PROFESSIONAL EXPERIENCE

- **Texas A&M University Department of Oceanography-** Ph.D. Student 08/24-Present
 - P.I. Dr. Yina Liu
- **Texas A&M University Geochemical & Environmental Research Group-** Technician II 03/23-08/24
 - Performs analysis following established SOPs and EPA guidelines.
 - Maintains and calibrates laboratory equipment.
 - Prepares reagents, stocks, calibrations, quality controls, while maintaining lab inventory.
 - Creates templates for easy data export/import following client specific guidelines.
 - Trains new personnel.
- **Entegris-** Production Analytical Chemist 03/20-11/22
 - Independently perform routine and complex analysis using established analytical methods.
 - Operates and maintain instrumentation, while ensuring accurate logs and documentation in compliance with current good manufacturing practices (cGMP)
 - Develops, evaluate, troubleshoot, validate, and transfer analytical methods.
 - Authors, reviews, and executes method validations and transfers protocols and reports.
 - Reports and reviews data, data trends, and product controls of in-house analysis.
 - Trains new employees.
- **Worldwide Clinical Trials-** PIN Analyst III 02/18-03/20
 - Conducts analysis following FDA regulations and good laboratory practice (GLP) regulations.
 - Prepares reagents, stocks, calibrations, and quality controls.
 - Maintains and calibrates laboratory equipment.
 - Reviews quality of data and assists in remediation and closing of deviations and CAPAs.
- **Clinical Pathology Laboratories-** Specimen Processor 07/15-03/18
 - Receives, identify, accession, and process biomedical samples prior to onsite analysis
 - Reports results and sample statuses to physicians and nurses.
- **Balazs NanoAnalysis-** Analytical Chemist 10/15-10/17
 - Conducts on-site analysis on semiconductor wafers, bulk materials, and solutions inside Samsung Austin Semiconductor Fabrication plant (Class 1 Cleanroom)
 - Receives/process, analyze, review, and report data.
 - Utilizes, calibrates, and maintains analytical instrumentation.

INSTRUMENTATION & TECHNIQUES

- | | |
|---|-----------------------------------|
| ◦ ICP-MS (Ion Coupled Plasma Mass Spectrometry) | ◦ pH, Conductivity, Autotitrators |
| ◦ GC/MS (Gas Chromatography/ Mass Spectrometry) | ◦ Liquid/Liquid Extractions |
| ◦ HPLC (High Performance Liquid Chromatography) | ◦ Liquid/Solid Extractions |
| ◦ GPC (Gel Permeation Chromatography) | ◦ Acid/Base Extractions |
| ◦ LC-MS (Liquid Chromatography Mass Spectrometry) | ◦ DNA Extraction |
| ◦ VPD Analysis (Vapor Phase Decomposition Analysis) | ◦ DNA Gel Electrophoresis |
| ◦ XRF (X-Ray Fluorescence) | ◦ Polymerase Chain Reactions |
| ◦ Karl Fisher Titration (Water Content) | ◦ Aseptic Technique |
| ◦ Automated Liquid Handlers (Hamilton) | ◦ Pipetting |

SKILLS

- Logical, independent, and driven to solve complex problems.
- Excellent record keeping skills and attention to detail.
- Great communication skills; ability to work in cross-departmental teams and projects.
- Research, data processing, and statistical analysis.
- Proficient in Microsoft Office, Mass Hunter, LabWare (or comparable LIM systems), and ChemStation.
- Bilingual (Proficient in English and Spanish).

REFERENCES

- Available Upon Request