

John Doe

ADDRESS
ADDRESS
PHONE NUMBER
[EMAIL](#)
[LINKEDIN](#)

EXPERIENCE

ANALYTICAL RESEARCH CHEMIST **09.2019 – PRESENT**
Common University – CITY, STATE

- Detailed method development to crystallize novel silver-DNA complexes
- Direct control over research objectives and project execution
- Performed custom crystallization screenings to optimize crystal growth rate and size

RESEARCH SPECIALIST III – MASS SPECTROMETRIST **08.2016 – 05.2019**
Medical University – CITY, STATE

- Supervised daily laboratory operations and reported results to the Director of the Proteomics Center
- Worked, individually and alongside, Principle Investigators and their PhD graduate students in three laboratory groups on data collection and tissue sample processing
- Collaborated with academic and industrial partners to successfully investigated novel chemical methods to locally detect oligosaccharides on multiple cancerous tissue types
- Performed detailed troubleshooting and non-routine maintenance on HPLC and MS systems

GRADUATE RESEARCH ASSISTANT **05.2014 – 08.2015**
Same Common University – CITY, STATE

- Maintained and operated all (10+) analytical instrumentation
- Trained four research groups to analyze HPLC and MS data for their projects
- Trained over twenty undergraduates on proper lab technique and analytical method development
- Presented extensively at the local, state, and national level for the FDA methods project

SKILLS

- Instrumentation:
 - Bruker MALDI MS systems, Waters LC systems and Q-ToF MS instrumentation
 - Waters HPLC, GC/MS, GPC, UV/Vis, DLS, Millipore water purifier, TMSprayer M5, WCX and WAX-SPE systems
- Software:
 - Microsoft Office (Word, Excel, Powerpoint)
 - MassLynx LCMS
 - FlexImaging MS
 - SCiLS MS data processing
- Certifications:
 - American Chemical Society (ACS) Certified
 - PADI Open Water Scuba Diving Certified

EDUCATION

FURMAN UNIVERSITY

- **Master of Science – Analytical Chemistry** **2014 – 2015**
 - Gained experience in project design and follow-through
 - GPA: 3.875
- **Bachelor of Science – Analytical Chemistry** **2010 – 2014**
 - Four years of undergraduate research and scientific presentations at the local, state, and national level with state and NIH funding
 - Gained proficiency with LC separation science and mass spectrometry
 - ACS Certification

PRESENTATIONS AND PUBLICATIONS

Biocide Analysis **LCMS method development and MS polymer analysis of PHMB and Alexidine in cooperation with the FDA; 3+ yrs.**

- B.L. Thompson, V.N. Samant, X. Wei, F.D.C. David, C.E. Edmunds, J.M. Wheeler, K.S. Phillips, J.F. Wheeler, S.K. Wheeler, Analysis of polyhexamethylene biguanide and alexidine in contact lens solutions using capillary electrophoresis, ultra-performance liquid chromatography and quadrupole time of flight mass spectrometry, *Talanta* (2019), doi: <https://doi.org/10.1016/j.talanta.2019.06.056>.

Cr/DNA Studies **LCMS studies to characterize Cr and DNA binding in the development of a new chemotherapeutic; 4+ yrs.**

- David, F.D.; Kantor, A.G.; Kane-Maguire, N.A.P.; Wheeler, S.K.; Wheeler, J.F.; “Investigation of the DNA Interaction of Novel Photoactive Diimine Complexes of Cr(III) Using LC-MS”, 2014 Pittsburgh Conference and Exposition, Chicago, IL, March 1-7, 2014.

Prunella Vulgaris **WCX and WAX plus HPLC analysis of herbal tea extract for the isolation of various flavonoids to determine maximum inhibition of MCF-7 breast cancer cells; 1+ yrs.**

- David, F.D.; Graybill, R.M.; Kingsley, C.M.; Hestermann, E.V.; Wheeler, S.K.; Wheeler, J.F.; “Isolating the Anti-Estrogenic Components of *Prunella vulgaris* Using Multiple Solid-Phase Extraction Methods and HPLC”, 2012 SC Academy of Science Meeting, Aiken, SC., April 13-14, 2012.

Ag/DNA Clusters **MS and MSMS analysis of silver atom and DNA clusters signals**

- “Ten-Atom Silver Cluster Signaling and Tempering DNA Hybridization” *Anal. Chem.*, **2015**, 87 (10), pp 5302–5309

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