

## Christopher Derteano

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### EDUCATION

North Carolina State University Raleigh, NC

*Bachelors in Chemistry*

December 2016

Wake Technical Community College Raleigh, NC

*C++ certificate*

February 2017

*Completed Courses in Major:*

- Calculus I-III, Differential Equations, Quantitative Chemistry, Quantitative Chemistry Lab, Analytical Chemistry I and II, Analytical Lab, Computational Lab, Biology I, Biology Lab I, Bio-Chemistry, Advance Measurements Technique Lab, Physical Chemistry I and II, Green Chemistry, Green Chemistry Lab, Advanced Statistics.

### WORK EXPERIENCE

Recipharm Raleigh, NC

March 2019- Present

- **Chemist I**
- Proficient utilization of Shimadzu 1000 Series and Agilent 2000 Series, experienced in many troubleshooting methods on UV, PDA (Low and High flow Cells) and ELSD.
- Skilled usage of osmometers
- Utilization of Karl Fischer to create standards and samples under a nitrogen hood
- Analyze Karl Fischer data using Tiamo Software
- Validation of Empower software experience, knowledgeable on different account settings and procedures.
- Advanced usage of Empower 3 for analysis, AssayImpurities and protein extraction methods.
- Work on 3 to 4 different methods throughout the week to make deliverables often go above and beyond to ensure weekly deliverables are accomplished.
- GMP environment

Guerbet Pharmaceuticals Raleigh, NC

November 2018-March 2019

- **QC Analytical Chemist**
- GLP and GMP environment
- Oversee sample delivery to warehouses and project completion
- Lims software proficient
- Advanced Empower 3 proficiency
- Method Development GxP and non GxP work
- GC and HPLC experience and UV
- Total Chrome software proficient
- Manage specific projects and analyze chromatograms to troubleshoot and optimize methods
- Tested Robustness, Linearity, Accuracy of Particular drug under several different conditions to optimize methods.

- OOS and exception writing experience
- Analyze and revise current testing procedures

**Catalent Pharmaceuticals** Morrisville, NC

**July-September 2018**

- **Senior Associate Scientist**
- Report writing
- Liquid Liquid extractions
- Advanced Empower 3 proficiency
- Method Development GxP and non GxP work
- GC and HPLC experience
- Stringent purification process
- Performed multiple projects by separating blank preparations and sample preparations in two different hoods to minimize contamination through air when working with volatile substances. Also, Turbuvaping and RotorVaping were done to evaporate any contaminant out of the sample.
- Worked with very volatile substances that evaporated very quickly under ambient temperatures so quick and precise wet lab work had to be performed.
- Tested Robustness, Linearity, Accuracy of Particular drug under several different conditions to optimize methods.

**Novartis/ Sandoz** Wilson, NC

**February- July 2018**

- **Analytical Chemist II**
- Drug release testing through Dissolution Method
- Analyze samples through UV and HPLC methods
- Empower 3 proficient
- GLP testing and environment.
- Create standards that meet system suitability and standard comparison under GLP conditions
- Maintain efficient and accurate work studies in a fast-paced, results driven environment
- Run and analyze multiple studies per week

**Tergus Pharma** Durham, NC

**January 2017 – Feb. 2018**

- Work with different extractions to find the best fit method for HPLC analysis
- Utilize *Franz Cells* to measure the permeation of lotions/ointments/creams through the skin.
- Write and run protocols for client development
- Mobile phase and buffer preparation
- Order processing
- Set up studies: collect media samples, skin samples, protein crashing, and homogenizing samples
- Weigh and make reference standards and stock
- Construct curves in various matrices

**Organic Lab Assistant** – North Carolina State University

**May 2016 – December 2016**

- Prepared and test samples as required prior to labs using dilution or distillation methods.
- Maintained stock room cleanliness and organization at all times under GLP.
- Categorized and dispose of chemicals across campus using GLP and HAZTRACK.
- Maintained chemical quantities of lab organized using excel.

**Experienced Instruments**

- UV-VIS spectroscopy, FTIR spectroscopy, High Performance Liquid Chromatography, Gas Chromatography, Differential Scanning Calorimeter (DSC).

**Measurements Project Phase**

**Spring 2016**

- I worked closely under the supervision of faculty to create a binary phase diagram of T-Butanol and water using a DSC instrument. Analysis was done using excel to determine the percent error within our data sets. Multiple samples of similar composition were taken to minimize random error and decrease percent error. Quartet analysis was performed due to the lack of literature values on this particular experiment.

***Language Skills: Fluent Spanish [spoken and written]***