

# Katherine North

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## SUMMARY OF QUALIFICATIONS

- Reputation of excellence, high quality of work, good eye for detail & skilled in setting priorities
  - Resourceful and self-confident, strong interpersonal & communication skills, takes initiative
  - Remain calm and work well under demanding conditions, highly motivated to achieve set goals
- Proficient in Microsoft office programs, Adobe Illustrator & laser cutting machine

## EDUCATION

### **Bachelor of Science in Biology - 2018**

*Texas State University, San Marcos, Texas*

**Minor:** Biochemistry & Psychology                      **Overall GPA:** 3.9

**Member of Honor's College \* Dean's List \* Certificate for Academic Excellence recipient**

### **Master of Science in Bioengineering - present**

*University of California – San Diego*

**Focus:** Nanoparticle synthesis                      **Overall GPA:** 3.8

## EXPERIENCE

### **Graduate Research Assistant** March 2020- Present

*Bioengineering Department UCSD, La Jolla, CA*

- Conducting Thesis research for masters' Degree in The Kwon Lab: Nanoscale Bioengineering Group
- Research focused on the development of PLGA nanoparticles with variable degradation rates as a target drug delivery system for the treatment of Traumatic Brain Injury
- Dedicate 40 hours a week to laboratory experiments, reporting weekly findings, and conducting

### **Senior Metals Analyst** January 2019- August 2019

*PharmLabs, Coachella, CA*

- Responsible for Heavy Metals Analysis on ICP-MS, Residual Solvents Analysis on GC, and Terpenes Analysis on GC-Liquid injection.
- Prepares, analyzes, and reports data to clientele for previously mentioned tests; creates data packages for Bureau of Cannabis Control
- Proficient in analysis of cannabinoids on HPLC and water activity/ moisture readings on Aqua Lab Duo

### **Supplemental Instructor** August 2016 – December 2018

*Student Learning Assistance Center, Texas State University, San Marcos, TX*

- Lead nontraditional tutoring sessions focused on collaboration and group study in Functional Biology, Organismal Biology, General Chemistry I, Organic Chemistry I, Evolutionary Biology
- Developed teaching materials such as study guides, visual aids, supplementary notes

Assigned to class with a drop, fail, or withdraw rate greater than 30%

### **Undergraduate Research Assistant** August 2018 – December 2018

*Biology Department Texas State University, San Marcos, TX*

- Research focused on the development of optical biosensors and microfluidic devices that detect and diagnose disease at the point-of-care
- Dedicate 10 hours a week to laboratory experiments, report weekly findings, update, and research progression
- Extensive experience with Universal Laser System Laser Cutting Machines

Developed protocol for Laser Cutting and reviewed methods to functionalize microsphere beads

### **Intern** June 2018 - August 2018

*PharmLabs, Coachella, CA*

- Prepared samples for extraction, investigation and experimentation
- Sample tests run for potency, residual solvents, terpenes, microbial testing, and pesticides
- Trained on variety of analytics methods such as GC, MS, UV-Vis, HPLC, & microbial culturing