

# HANNAH LUEBBERING

Applied Mathematics and Computer Science student at Wake Forest University seeking a full or part-time position in advance of attending graduate school. Motivated to learn, grow, and excel in technology. Proven success working within fast-paced, collaborative settings.



## EDUCATION

2017-  
2021

### Wake Forest University

BS in Applied Mathematics, Minor in Computer Science

- Extracurricular: Association for Women in Mathematics, Women in Computer Science, & Kappa Kappa Gamma Sorority
- GPA: 3.471

2019

### University of Sydney

Study Abroad, Python and Real Analysis

- Extracurricular: SUMS, Mathematics Society

2018

### Queen Mary University of London

Study Abroad, Organic Chemistry II

- Grade: A

2013-  
2017

### Blue Valley North High School

High School Diploma

- Extracurricular: Varsity Cross Country and Track, Cross Country Team Captain, Science National Honor Society, & National Honor Society
- GPA: 4.0



## EXPERIENCE

2020-  
2021

### Data Science Pedagogy Research

Wake Forest University | Winston-Salem, NC

- Worked with Dr. McGowan in the Department of Mathematics & Statistics at Wake Forest University.
- Studied the learnr R package and published tutorials on GitHub.
- Tutorials explained various R functions including tidyverse, types of data frames, manipulating data frames, and more.

2019-  
2020

### New South Wales Health Internship/ Research Project

Westmead Institute for Medical Research | Sydney, Australia

- Completed projects with various industries involving preventative health, chronic illness, immersive technology, precision medicine, open data, and more.
- Conducted thorough research using diverse resources to assist professional staff with project tasks.



## CONTACT

✉ [luebhr@gmail.com](mailto:luebhr@gmail.com)

🐙 [github.com/hluebbering](https://github.com/hluebbering)

🔗 [hannah-luebbering.com](https://hannah-luebbering.com)

in [linkedin.com/in/hannah-luebbering](https://linkedin.com/in/hannah-luebbering)

## SKILLS

✍ Technical Writing

🔧 Research and Technology

🔬 Analytical Chemistry

📊 Spectroscopy and Nanotechnology

📦 Data Science

📈 Statistical Analysis

📐 Mathematical Modeling

🌐 Web Design using HTML

🐙 GitHub

📊 R

☕ Java

🐍 Python

📊 Matlab

## CERTIFICATES

IT Automation with Python

Google Professional Certificate | 2020

Intro to Machine Learning

Kaggle Learn Course | 2020

2018-  
2020

## Nanotechnology and Chemistry Research

Wake Forest University | Winston-Salem, NC

- Worked with Dr. Ghadiri in the Department of Chemistry at Wake Forest University.
- Conducted experiments and analyzed samples using UV-VIS spectroscopy, confocal microscopy, and Agilent software.
- Tracked experimental results and analyzed data using MatLab and Excel.

2018-  
2019

## Concussion Research Assistant

Wake Forest Innovation Quarter | Winston-Salem, NC

- Monitored soccer players, outfitted players with mouthpiece software, collected data, and analyzed data for study of head impact in sports and injury biomechanics.

2018

## Clinical Internship/Shadowing Program

Wake Forest Baptist Health | Winston-Salem, NC

- Accepted a clinical internship program offered by Wake Forest School of Medicine.
- Shadowed Dr. Talbott, an anesthesiologist at Wake Forest Baptist Health.
- Gained high quality clinical experience and increased understanding of the practice of medicine.

2017

## Orthopaedic Surgery Shadow

KC Orthopaedic Institute | Leawood, KS

- Shadowed several orthopaedic doctors during surgeries and patient office visits.
- Shadowed Dr. Steven Joyce for knee arthroscopy and rotator cuff tear repair surgeries, Dr. Dan Gurba for total knee replacements, Dr. Kirk McCullough for ankle reconstruction surgeries, and Dr. JP Halloran for ACL repairs and ankle reconstructions.



## VOLUNTEER POSITIONS

2017-  
2018

### Intensive Care Unit Volunteer

Wake Forest Baptist Health | Winston-Salem, NC

- Volunteered at the Wake Forest Baptist Medical Center in the Intensive Care Unit.
- Worked at the front desk, assisted nurses, helped patients, and organized files and equipment.

2015-  
2016

### Hospital Volunteer/Intern

Children's Mercy Hospital | Kansas City, MO

- Volunteered at the Children's Mercy Hospital as a Pathfinder.
- Helped patients and families navigate the hospital, and assisted nurses in the sports medicine clinic.

2015

### UCLA Student Volunteer

University of California, Los Angeles | Los Angeles, CA

- Volunteered around Los Angeles and earned 45 community service hours.
- Provided meals and other assistance to families, schools, and underprivileged residents of Los Angeles.



## ACADEMIC PROJECTS

### Excitatory and Inhibitory Dynamics of Model Neurons

- A study analysis of the Wilson-Cowan model and mathematical analysis of excitatory and inhibitory dynamics of model neurons.



### Shiny and LearnR in Randomized Trials

- Modules used for a randomized trial that randomly assigns students to the tidyverse or base modality for learning R.



## ACCOMPLISHMENTS



### Association for Women in Mathematics Executive Committee

Wake Forest University | Winston-Salem, NC

- Led and participated in various programs and workshops to mentor students in math and science.