HANNAH LUEBBERING

Applied Mathematics and Computer Science student at Wake Forest University seeks a career in software computing, data science, and related technologies. Motivated to learn, grow and excel in technology.

EDUCATION

2017-2021
Wake Forest University | Winston-Salem, NC
BS in Applied Math, Minor in Computer Science

2019
University of Sydney | Sydney, Australia
Study Abroad, Python and Real Analysis

2018
Queen Mary University of London | London, England
Study Abroad, Organic Chemistry II

2013-2017
Blue Valley North | Overland Park, KS
High School Diploma

- Varsity Cross Country, Cross Country Team Captain, Varsity Track, National Honor Society, and Science National Honor Society

EXPERIENCE

2020-2021
Data Science Pedagogy Research
Wake Forest University

- Worked with Dr. McGowan in the Wake Forest Department of Mathematics and Statistics. 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
The Westmead Institute for Medical Research, Sydney, Australia

- Lived in Sydney for five months and worked in projects with various industries involving preventative health, chronic illness, immersive technology, precision medicine, open data, and more.

2018-2020
Nanotechnology and Chemistry Research
Wake Forest University

- Worked with Dr. Ghadiri in the Chemistry Department. Conducted experiments and analyzed samples using UV-VIS spectroscopy, Confocal Microscopy, and Agilent. Used MatLab and Excel for data analysis.

2018-2019
Concussion Research Assistant
Wake Forest Innovations

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

CONTACT

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linkedin.com/in/hannah-luebbering

SKILLS

- Technical Writing
- Research and Technology
- Analytical Chemistry
- Spectroscopy tools in nanotechnology
- Solar Energy
- Data Science
- Statistical Analysis
- Mathematical Modeling
- Mathematical Programming
- HTML
- GitHub
- R
- Java
- Python
- Matlab

2018

Clinical Internship/Shadowing Program

Wake Forest Baptist Health

- Accepted a clinical/shadowing internship program offered by Wake Forest School of Medicine. Shadowed Dr. Talbott, a physician specializing in anesthesiology during the first half of the semester.

VOLUNTEER POSITIONS

2017-2018

Intensive Care Unit Volunteer

Wake Forest Baptist Health

- Volunteered at the Wake Forest Baptist Medical Center in the Intensive Care Unit. Worked at the front desk, assisted nurses, helped patients, and answered phone calls.

2017

Surgery Shadow

Kansas City Orthopaedic Institute

- 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.

2015-2016

Children's Mercy Hospital Volunteer/Intern

Children's Mercy Kansas City

- 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

- Volunteered at UCLA and around Los Angeles and earned 45 of 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

Wake Forest Mathematics Department

- 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

Wake Forest Mathematics Department

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

AFFILIATIONS

Association for Women in Mathematics Executive Committee

Wake Forest University

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

Kappa Kappa Gamma Sorority
Wake Forest University