Hannah Luebbering

Data Science graduate student at the University of Washington. Excited to apply mathematics and programming skills to solve real-world problems. Motivated to learn, grow, and excel in data science and technology to improve others' quality of life.

🎓 EDUCATION

2021-2022

University of Washington
Master of Science - MS, Data Science

2017-2021

Wake Forest University
Bachelor of Science - BS, Applied Mathematics

2019

University of Sydney
Study Abroad, Real Analysis and Python
- SUMS, Mathematics Society

2013-2017

Blue Valley North High School
High School Diploma
- Varsity Cross Country and Track, Team Captain, Science National Honor Society

💻 EXPERIENCE

2021

Visualization Developer and Data Analytics Intern
Empower Retirement | Greenwood Village, Colorado

- Built interactive data-driven infographics to provide relatable knowledge of capacity, cost, labor, and overall project management.
- Analyzed cloud platform data and created Tableau dashboards to expose visibility into cloud resource expenses.

2020-2021

Data Science Pedagogy Research
Lucy McGowan's Lab, Wake Forest University | Winston-Salem, NC

- Assisted Dr. McGowan's Data Science Lab on examining best practices in teaching R.
- Built and published interactive tutorials on using Tidyverse for data analysis.
- Created randomized trials using Shiny and LearnR software tools.

2019-2020

New South Wales Health Internship
Westmead Institute for Medical Research | Sydney, Australia

- Researched data analysis methods to evaluate biomedical risk factors and make evidence-based decisions in the personalized treatment of chronic diseases.
- Analyzed electronic health record data for common chronic diseases and drafted patient similarity models to generate dynamic treatment insights.

2018-2020

Nanotechnology in Solar Cells Research
Elham Ghadiri's Lab, Wake Forest University | Winston-Salem, NC

- Worked with Dr. Ghadiri's Laboratory for Nano-Photo-Chemistry.
- Acquired photoluminescence imaging, spectroscopy, and ultrafast pump-probe microscopy data of solar cell devices.
- Analyzed data to identify photophysical processes and device performance of nanostructured films.

CONTACT

- ✉ luebhr@gmail.com
- in linkedin.com/in/hannahluebbering
- ○ github.com/hluebbering
- 🔗 hluebbering.github.io
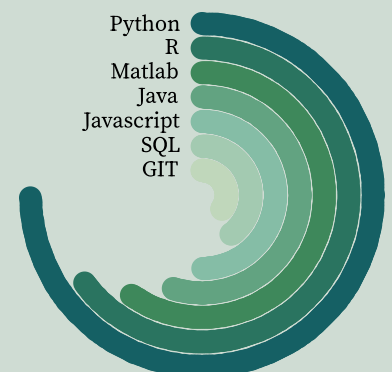
SKILLS

- x^2 Mathematical Modeling
- 📈 Statistical Analysis
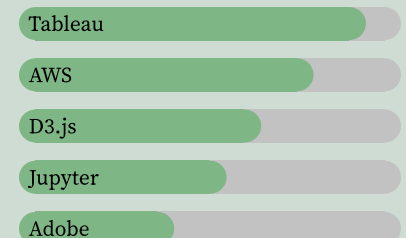- Research and Technology
- 🔬 Nanotechnology and Chemistry
- ⊗ Data Analytics and Visualizations
- Web Design

PROGRAMMING

Python
R
Matlab
Java
Javascript
SQL
GIT

TOOLS

- Tableau
- AWS
- D3.js
- Jupyter
- Adobe

2018-2019

Concussion Research Assistant
Wake Forest Innovation Quarter | Winston-Salem, NC

- Collected and analyzed kinematic data from instrumented mouthguard sensors to study the injury biomechanics of head impacts and concussions.

VOLUNTEER POSITIONS

2017-2018

Intensive Care Unit Volunteer
Wake Forest Baptist Health | Winston-Salem, NC

- Operated the front desk, assisted nurses and doctors, and organized files and equipment.

2015- 2016

PathFinder
Children's Mercy Hospital | Kansas City, MO

- Helped visitors navigate the hospital, assisted doctors in the sports medicine clinic.

2015

UCLA Student Volunteer
University of California, Los Angeles | Los Angeles, CA

- Participated in various service projects around Los Angeles.
- Helped local environmental groups preserve marine habitats, provided meals and other assistance to underprivileged residents.

EXTRACURRICULAR

2019-2021

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.