

# 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

- 2021-2023 **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 **NANO TECHNOLOGY 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.

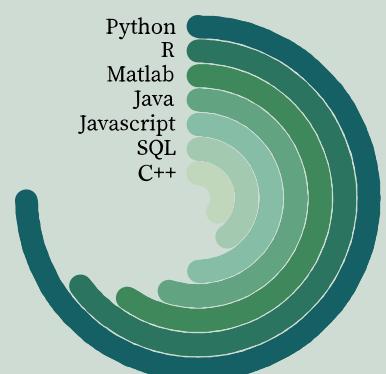
## CONTACT

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- Github [github.com/hluebbering](https://github.com/hluebbering)
- Website [hluebbering.github.io](https://hluebbering.github.io)

## SKILLS

- XM² Mathematical Modeling
- XF Machine Learning
- XG Data Analytics and Visualizations
- XH Statistical Analysis
- XI Nanotechnology
- XJ Web Design

## PROGRAMMING



## TOOLS

- Tableau
- HTML/CSS
- D3.js
- AWS
- 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.

2017-  
2018

#### **VOLUNTEER POSITIONS**

##### **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.

2019-  
2021

#### **EXTRACURRICULAR**

##### **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.