

Hantong Hu

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9004 Lansdale Drive
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EDUCATION

University of North Carolina at Chapel Hill	2016 - 2020
<ul style="list-style-type: none">• Major: B.S. Biostatistics, B.A. Mathematics Minor: Neuroscience• GPA: 3.8• Related coursework: Statistical Computing and Data Management, Probability and Statistical Inference, Linear Models, Sample Survey Methodology, Working with Data in a Public Health Research Setting	

PROFESSIONAL EXPERIENCE

Independent Projects	September 2018 – August 2019
University of North Carolina at Chapel Hill, Chapel Hill, NC	
<ul style="list-style-type: none">• New York State Crime Rate Analysis<ul style="list-style-type: none">○ Proficiency in SAS in performing data cleaning, merging, statistical analysis, and regression analysis○ Created new SAS Macros and utilized PROC SQL and SGPLOT to achieve data visualization such as boxplots and regression models, and generate report using PROC REPORT○ Built a model to predict the New York State crime rate based on factors such as median household income using data from Federal Census Bureau• Global Income Analysis<ul style="list-style-type: none">○ Proficiency in Python in performing data organization and statistical analysis using packages such as Pandas, NumPy, SciPy and several machine learning packages○ Analyzed possible associations between global household income and other factors, such as cumulative CO2 emission, using data from the “Gapminder Foundation”○ Completion of online course “Complete Python Bootcamp” on Udemy	
Student Research Assistant, Melissa A. Troester Lab	August 2019 – Sept 2020
Department of Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC	
<ul style="list-style-type: none">• Excellence in R in creating programs to conduct statistical analysis such as PCA and visualize data such as using heatmaps and boxplot; proficiency in using Bioconductor packages and ggplot2 package• Proficiency in Excel in data curating• Knowledge of 508 compliance• Generated reports using graphs and tables to interpret and summarize data for presentation• Experience with genetic analysis and visualization software such as nSolver, Cluster 3.0, and Java TreeView• Experience with SQL• Quick learner and ability to manage multiple projects at one time	
Undergraduate Learning Assistant, MATH 232: Calculus of Functions of One Variable II	January 2018 – May 2018
University of North Carolina at Chapel Hill, Chapel Hill, NC	
<ul style="list-style-type: none">• Provided academic support to students to help them understand and apply mathematical concepts• Engaged in students’ discussions and provide feedback to encourage students to think deeper about the course objects• Provided technical support to the instructor in class and assisted in the development of the course content	
Research Assistant	June 2015 – July 2015
Shanghai Academy of Agricultural Sciences, Shanghai, China	
<ul style="list-style-type: none">• Collected and analyzed experiment data related to barley growth using Excel• Conducted hypothesis tests to study the hybrid performance in low-nitrogen tolerance of barley• Performed lab work such as cell culture, centrifuge, gel electrophoresis etc.	

SKILLS

- Statistical Programming: SAS (Base, Macro, SQL), R
- Programming: Python, Java
- Language: English, Chinese, Japanese