**RUNZE CUI**

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100 Haven Ave, Tower 2, New York, NY, 10032

**EDUCATION BACKGROUND**

**Columbia University**, Mailman School of Public Health, New York, NY 08/2022-Present

***Master of Science in Biostatistics (Public Health Data Science Track)***

* GPA: N/A/4.0 (in progress)
* Core Courses: Data Science (R language), Biostatistics, Probability, Epidemiology

**The Ohio State University** (OSU), Columbus, OH   01/2018-08/2022

***Bachelor of Science in Mathematics (Biology Track)***

* GPA: 3.648/4.0
* Core Courses: Calculus, Linear Algebra, General Biology, Molecular Genetics, Mathematical Statistics, Differential Equation
* Awards: Dean’s List (Four times) 08/2020-05/2022

**PROFESSIONAL TRAINING**

**Coursera**, Online12/2020-Present

* Courses: Programming for Everybody (Getting Started with Python) by the University of Michigan (with a Course Certificate); Web Application Technologies and Django by the University of Michigan.

**WORK EXPERIENCES**

**The Heritage Group,** Indianapolis, IN 05/2021-08/2021

*Intern in the Research Institute* ∎ Mentor: Prof. Kathy Stickney, Chief Researcher in the Heritage Group

* Participated in two projects themed at halogenated plastic recycling and agricultural chemicals & algal blooms – environmental impacts on our ecosystem respectively
* Employed Python to perform information mining and data collection from SciFinder
* Consulted literature for more chemistry, statistics, and modeling knowledge and managed to explain models
* Produced a PPT introducing the two projects and delivered a public presentation before engineers and managers

**RELEVANT PROJECTS**

**Chinese Academy of Sciences,** Beijing, China 08/2020-06/2021

*Research Assistant* ∎ Mentor: Prof. JinYan, Chief Researcher in the Chinese Academy of Sciences

* Fulfilled systematic learning in programming, machine learning, classification, models, and algorithms
* Utilized Python for data extraction, analysis, and prediction according to glycemic indexes from hospitals
* Constructed images for testing independent of training data, and trained the network using the supervised learning approach to reach an over 80% accuracy rate in blood glucose level evaluation
* Finished the paper “Analysis of Blood Glucose Levels Based on Deep Learning and Image Algorithms”

**The Molecular Genetics Project, OSU,** Columbus, OH  08/2020-06/2021

*Researcher*∎ Mentor: Gregory Booton, Assistant Professor in OSU Department of Molecular Genetics

* Delved into how to speculate and compute the probability of virulence genes in descendants of patients with genetic disorders using the family tree of gene inheritance
* Performed gene information retrieval and conducted research to understand gene query websites and relevant tools

**ADDITIONAL INFORMATION**

* **Technical**: Microsoft Office, Python, MATLAB, HTML, R Studio, etc.
* **Soft Skills**: Communication, Critical thinking, Collaboration, Problem-solving, Leadership capabilities
* **Languages**: English (Fluent), Chinese Mandarin (Native)
* **Interests**: Playing Badminton and Basketball, Chinese Calligraphy