Ruijie / He

Bronx, New York, 10461 347-679-6918   rh3195@cumc.columbia.edu

EDUCATION

Mailman School of Public Health at Columbia University   Washington Heights, New York
Degree: Master of Science   *Sept. 2023 - Current*
Department: Biostatistics, Public Health Data Science
Stony Brook University   Stony Brook, New York
Degree: Bachelor of Science, Major in Biology & Minor in Applied Mathematics & Statistics   *Aug. 2018 - Current*
Coursera   Online
Non-Degree Education Program   *Sept. 2022*
*·Have Completed the specialization of **Python for Everybody** offered by the University of Michigan, including five courses:
Programming for Everybody(Getting Started with Python), Python Data Structures, Using Python to Access Web Data, Using
Databases with Python, Capstone: Retrieving, Processing and Visualizing Data with Python)*

RESEARCH EXPERIENCE

Stony Brook University
Research on COVID Infection Influence on the Athletic Performance of Baseball Players   *Sept. 2022 - May 2023*
Joe Rossiello(Research Lead), Anthony Szema
- Analyzed the individual performance of major league baseball players on one team before and after COVID infection during the 2021 season.
- Utilized SPSS to conduct matched samples t-test on the representative indicators of players' performance data and visualize the results for the analysis of the influence of COVID-19 on the performance of baseball players.
- Create abstract poster to be presented at the American Thoracic Society International Conference, Washington DC, May 2023

Yale University School of Public Health
Research on Response Mechanisms for Public Health Emergencies - COVID and SARS   *Jul. 2022 - Mar. 2023*
Professor Linda Niccolai
- Reviewed the differences and changes in the entire emergency response system by comparing the measures taken during the SARS and COVID-19 outbreaks in China.
- Conducted literature review on articles of emergency responses during pandemics
- Accepted by International Conference on Modern Medicine and Global Health

Academic Project Led by Professor Linda Niccolai
Epidemiology Methods for Public Health Research Project   *Jul. 2022 - Sept. 2022* (Online)
- Familiarized with the concepts of descriptive epidemiology and public health surveillance.
- Compared main types in epidemiological research and learned to choose a suitable study design.
- Mastered approaches of data analysis for epidemiological research including the measures of frequency and association.
- Grasped the assessment methodology of experimental validity and standard steps for outbreak Investigations through the case study of Legionnaire's disease and COVID-19 outbreak.

HEALTHCARE EXPERIENCE

Kids Dental Care   Queens, New York
Dental Assistant   *Aug. 2022 - Current*
- Learned to create dental impressions for diagnostics, opposing models and study casts to make crowns, bridges and other dental prosthetics.
- Helped with dental restoration procedures by applying permanent and temporary fillings, crowns and sealants.
- Sanitized, restocked and organized exam rooms and set up x-ray machines to take x-rays for patients.
- Educated patients on postoperative care and best practices for protecting dental work and boosting the healing process.
- Assisted dentists by mixing materials for fillings, casts and impressions and passing instruments and suctioning intraoral fluids.

Three Village Allergy&Asthma   South Setauket, New York
Medical Assistant   *Apr. 2022 - Apr. 2023*
- Performed Pulmonary Function tests for patients, such as nitric oxide, spirometry, and impulse oscillometry.
- Assisted with routine checks and diagnostic testing by collecting and processing specimens.
- Interviewed patients to get their intake, the reason for visit, surgical history, and lab preference.
- Established clients' medical profiles, collected and arranged the data about their medical history, medication information, symptoms and allergies and pre-treatment and post-treatment vital signs.
- Communicated and coordinated with insurance companies for medications like Xolair, Fasenra, Cinqair, Hyqvia, and Tezspire to initiate and follow up prior authorization.
- Trained new interns in receptionist and medical assistant positions and gave them lectures on flow volume loop and patch tests.

LEADERSHIP EXPERIENCE

Teaching Assistant of Linear Algebra at Stony Brook University *Aug. 2022 - Dec. 2022*
- Held office hours to improve students' understanding by explaining textbook concepts and helping derive formulas.
- Instructed students to program with Matlab and helped tackle coding issues.
- Applied fair grading practices consistently to evaluate students' work and assign letter or number values.

Teaching Assistant of Probability And Statistics For Life Sciences at Stony Brook University *Jun. 2022 - Aug. 2022*
- Held office hours and supported students' learning by providing individualized and small group support to reinforce classroom topics.
- Graded assignments and tests, documented results, concluded students' performance informed professor in report forms.
- Hold recitation sessions with the material generation, lesson plan development, class preparation, scheduling, exam distribution and student mentoring.

ACHIEVEMENTS/AWARDS

- **Membership of National Society of Leadership and Success** *Dec. 2021 - Current*
- **Membership of National Honor Society** *Jun. 2018 - Current*

TECHNICAL PROFICIENCIES

- Software Capabilities: R studio, AWS, Github, Hackmd, Microsoft Office
- Languages: Mandarin (Native), English (Fluent)
- Interests: Dance, Photography, Taekwondo, Baking, Pilates, Chinese calligraphy