Nankun Liu

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Education

Columbia University, Mailman School of Public Health — New York, NY
MPH | Major in Biostatistics | Certificate in Advanced Epidemiology — Expected May 2020
Current GPA 3.516/4.0

University of Missouri-Columbia — Columbia, US
Bachelor of Science | Major in Biology | Minor in Chemistry — Graduated May 2018
Overall GPA 3.716/4.0; Dean's List (2014-2017)

Work Experience

Beijing Center for Disease Prevention and Control — Beijing, China
Information Analyst, Lab Technician (Internship) — May-Aug. 2018

• Conducted data analysis, retrieved and translated documents related to Listeria. Utilized Excel to analyze 27 complex samples.
• Accurately followed protocols to gather samples of circulating food, treat samples for enzymatic hydrolysis, dispensing, preservation etc., in order to prevent outbreaks of Listeria.
• Ensured samples were properly handled; managed colony treatment, bacterial inoculation, expanded culture, species identification, and utilized DNA analyzer.
• Provided health counseling to elderly individuals; and responsible for health science manual selection.

Demeixinda Medical-Device Technology Co., Ltd. — Beijing, China
Equipment Engineer Assistant (Internship) — May-June 2017

• Collected production status data from records below in order to make a summary report for analysis.
• Monitored amount of required materials, inspected for defects and ensured compliance with manufacturing protocols, report suspected defaults and potential shortage.
• Assembled and installed endoscope mainframe and light sources, HD and fiber ultrasonic electronic bronchoscope in hospitals.
• Used attention to detail to inspect and test the final products; diagnosed and repaired problem products, report any procedures and results.

Research Experience

Monoclonal Antibody Production: Animal Culture — *Beijing, China*
National Institutes for Food and Drug Control | Lab Assistant | Supervisor: Wang, Lan — Mar.-June 2016

• Assisted in developing an immunization program and injected animal models to produce B lymphocyte.
• Conducted scientific research by creating splenocyte suspension by mixing homologous myeloma cells and obtained hybridoma cells after confluence, and then used HAT to screen hybridoma cells.

Western Blot to Test Lipase Function Gene — Beijing University of Technology
College of Life Science and Bio-engineering | Lab Technician — June-Jul. 2015

• Accurately prepared samples that extracted total protein from monolayer adherent cells, drug treated cells and tissue; conducted experiments using SDS-PAGE electrophoresis, electroblotting of protein from gel onto membrane, undertook experiments on immune response, captured digital image of Western Blot, and analyzed molecular weight using gel imager systems.

Determination of Mixed Acids Analysis Experiment — Columbia, US
University of Missouri-Columbia | Lab Technician | Supervisor: Tipton, Peter — Oct.2017

• Obtained first derivative by using Excel data processing, calculated HCI concentration, H_3PO_4 concentration in unknown, conducted error analysis.
• Followed research protocols and ensured equipment was the correct pH balance.
• Determined pH, recorded the pH, and performed three additional titrations to obtain average value
• Recorded volume and pH data and analyzed by using spreadsheet of Microsoft Excel, plotted the pH versus corrected volume of titrant for each titration.

Factor Effect on Hospitalized Malnutrition — Columbia, US
Columbia University | Data analyst | Mentor: Seres, David — May 2019-Now

• Hypothesis raise about different risk of malnutrition between sarcoma cancer patients and adenocarcinoma cancer patients.
• Data acquire and data cleaning by SAS and Excel.
• Simple Chi-square test and t-test for basic associations within main variables (cancer type, age, albumin, etc.).
• Logistic model building and selection; confounder, mediator, effect modifier control and strata(ongoing).
• Making poster to present the result and conclusion.

Skills

Computer Skills: Microsoft: Word | Excel | PowerPoint; Statistical language: SAS | R | SPSS | Sql

Language Proficiency: Chinese-Mandarin