Yu He, MS, MPH, MD

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Objective

To obtain a degree in Epidemiology at Columbia University to build on my professional and academic knowledge and pursue my research interests in Epidemiology

Education

KANSAS STATE UNIVERSITY, Manhattan, KS
Bachelor of Science, Biological Systems Engineering - September 2009 -May 2013

ICANH SCHOOL OF MEDICINE AT MOUNT SINAI, New York, NY
MD - September 2015- May 2019

Hofstra University, Hempstead, NY
Master of Public Health – September 2019 – May 2021

Columbia University, New York, NY
Master of Science - September 2021 – May 2023 (expected)

Research

1. **Arm Guard Project – Heartspring (A worldwide center for children with special needs) and Kansas State University Project -** Adviser: Dr. Edwin L.Brokesh. P.E

   a   Collected, analyzed and interpolated the special need of autistic patients
   b   Gathered and applied experts' advises in the project
   c   Summarized and wrote the design report

2. **The interplay between Cognitive and Motor Fatigue in Multiple Sclerosis - Kessler Foundation research project -** Primary Investigator: Dr. Zhiguo Jiang

   a   Reviewed previous research and assisted in study design
   b   Screened and recruited participants
   c   Assisted the MRI and CT scanning
   d   Gathered and analyzed cognitive and motor data through MATLAB script

3. **Fractal Dimension Measurement indicated deterioration of brain white matter integrity in Multiple Sclerosis - Kessler Foundation research project -** Primary Investigator: Dr. Zhiguo Jiang

   a   Reviewed previous research and assisted in study design
   b   Screened and recruited participants
   c   Assisted the MRI and CT scanning
   d   Gathered and analyzed FD and motor data through MATLAB script

4. **Clinical risk predictors of pneumonia among stroke patients admitted for inpatient care at a provincial hospital in Thailand -** Primary Investigator: Dr. Chanapong Rojanaworarit, DDS, MPH

   a Presented in 2020 New York City Epidemiology Forum at Mailman School of Public Health, Columbia University
   b Analyzed and interpreted data that described typical clinical predictor of post-stroke pneumonia
   c Reviewed previous researches and wrote the paper

5. **Association between Air Pollution and the Prevalence of Alzheimer's disease at Four Metropolitan Areas in the United States of America – Icahn School of Medicine Graduate Thesis -** Adviser: Dr. Nikolaos K. Robakis, MD

6. **Help Me Growth evaluation project -** Primary Investigator: Dr. Martine Hackett, MPH, CHES

   a Collected, reviewed, and analyzed the Children concerns, demographic, service outcome data

7. **Exercise with Pride – Hofstra University evaluation project -** Adviser: Dr. Anthony J. Santella, MPH, MCHES

   a Collected and analyzed the students' activity and questionnaire data
   b Designed the process and outcome evaluation with teammates
   c Presented evaluation plan to stakeholders with teammates

Working and Leadership

Dujiangyan xingda foodstuff co., LTD   CHENGDU SICHUAN PROVINCE   CHINA - Manager Assistant in biotechnology, May 2010 – August 2010

- Files collection at food safety test and Custom Declaring steps
- Worked on the translating the export files
- Preparing the export paper work, reexamining the food safety report Food safety test lab

Air Quality Laboratory, Department of Biological & Agricultural Engineering, Kansas State University, Manhattan, KS - Undergraduate Research Assistant January 2011 – May 2012

- Farmland soil sample analysis
- Greenhouse gas emission measurement
- Greenhouse gas composition data analysis

Chinese Students Service Fraternity, Kansas State University, Manhattan, KS - Vice-Minister of Organizing Department, September 2010 – May 2012

- Organizing the mid-autumn and spring festival
- Organizing the student basketball and soccer game

Kessler Foundation, West Orange, NJ - Research Assistant, June 2013 – June 2015

- MRI image analysis
- Fractal dimension analysis
- MATLAB scripting
- Cognitive neurology test
- Participants communication and recruitment

Other Skills

Language skill: Chinese (Mandarin) and English - Proficient Level

Software and Skills: Microsoft Office, Creo Parametric 2.0, MATLAB, SAS, R