

XIN FANG

Mailman School of Public Health, Columbia University
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EDUCATION

COLUMBIA UNIVERSITY

New York, NY, USA

Epidemiology, MPH

May 2022

Certificate in Applied Biostatistics and Public Health Data Science

GPA: 4.2/4.0

Thesis: *“The relationship between in utero exposure to air pollutants from coal-fired power plants and the risk of autism spectrum disorder (ASD) in Pennsylvania, USA”*

Advisor: Joan A. Casey

NORTHEASTERN UNIVERSITY

Boston, MA, USA

Health Sciences, BS

August 2020

Japanese Language, Minor

GPA: 3.8/4.0

Capstone: *“The Effect of Educational Attainment on SF-36 Scores among ESRD Dialysis Patients”*

Advisor: John L. Griffith

Academic Honor: Dean’s list

RESEARCH EXPERIENCE

Assistant Researcher

05/2020 to Present

Columbia Mailman School of Public Health, Center for Children’s Environmental Health

Topics: Association between Childhood Exposure to UNGD Activity and First Childhood

Asthma Diagnosis; Environmental Justice and Hydrocarbon Development in Pennsylvania

- Conducted geospatial analysis on site distribution and attributes using the SF package in R.
- Established multinomial logistic regression model and conducted many statistical analysis.
- Ran analysis on the relationship between waste disposal and deprivation score.
- Drafted publication manuscript to International Society for Environmental Epidemiology Journal.
- Cleaned multiple raw datasets, including dealing with outliers, and sorting attributes in Tidyverse R.

Student Researcher

07/2019 to 05/2020

Northeastern University, Bouvé College of Health Sciences

- Designed toolbox talks around time management, nutrition, and safety climate.
- Administered toolbox talks on site.
- Monitored survey data and qualitative interviews on site.
- Improved the participants’ overall experience with research, leading to more than 90% of the participants completing all the follow-up surveys.

- Finalized project-based presentations at recruitment events.
- Conducted project recruitment at meetings and roundtables.
- Organized research progress tracking every week.
- Established relationships with former project contacts during follow-up, more than 80% expressed interest in assisting with future projects.

Assistant Researcher

01/2018 to 07/2018

Tufts Medical Center, Clinical and Translational Science Institute

- Collaborated with a biostatistician to complete a systematic review of recent osteoarthritis studies.
- Collected and organized data collection and analysis methods used in over 300 published articles.
- Edited the budget sheet for a 5-year NIH grant, which was awarded in 05/2018.
- Invited and kept track of participants for biomedical symposiums.
- Organized job development seminars resulting in higher work efficiency.
- Recorded minutes for weekly department meetings.

TEACHING EXPERIENCE

Graduate Teaching Assistant

Columbia University

09/2021 to Present

ReMA Quantitative Foundations 2021

- Lectured quantitative labs, and graded homework and exams
- Led review and discussion sessions
- Held one office hour a week
- Responded to student inquiries via email and follow-up in a timely manner
- Provided technical support and answered students' questions during lectures

RESEARCH INTERESTS

Environmental Justice

Air Pollution

Children's Health

POSTERS AND PRESENTATIONS

"The Effect of Educational Attainment on SF-36 Scores among ESRD Dialysis Patients,"
RISE 2020 Symposium, Northeastern University, May 2020

"Environmental Justice and Hydrocarbon Development in Pennsylvania," Epidemiology
Masters Student Day 2021, Columbia University, November 2021

VOLUNTEER EXPERIENCES

DANA-FARBER CANCER INSTITUTE
(5 hrs/week)

Boston, MA
01/2019 to 11/2019

- Engaged in conversation while transporting patients for a positive medical experience.
- Greeted patients in a friendly manner while they check in for appointments.
- Educated patients about open patient-care programs so they are informed.

ZHEJIANG BLOOD DONATION VOLUNTEERS ASSOCIATION
(12 hrs/week)

Zhejiang, China
03/2015 to 05/2016

- Trained to promote the benefits of blood donation and explained the health background to donors.
- Interacted with donors and their family members for their worries before and after donation.
- Collected and reported data from donors' personal and family medical backgrounds.
- Followed-up donors' after-experience thoughts, and informed them when their blood helped patients in need.

GREENTOWN CARDIOVASCULAR DISEASE HOSPITAL
(20 hrs/week)

Zhejiang, China
02/2014 to 09/2015

- Enhanced patient's experience by properly engaging and informing family members during treatments.
- Trained to refer patients to appropriate healthcare services or resources.
- Investigated and directed patients and their members' inquiries or complaints to appropriate medical staffs and followed-up to ensure satisfactory resolutions.

PUBLICATIONS

Lieberman-Cribbin W, Fang X, Gonzalez DJX, Hill E, Deziel N, Casey JA. Environmental justice and hydrocarbon development in Pennsylvania – *in preparation*

TECHNICAL SKILLS

Programming languages and mathematical packages: R, SAS, Matplotlib, SQL, STATA
Other: Linux (openSUSE, Ubuntu), Mac OS, Windows OS

LANGUAGES

Japanese: Fluent
Mandarin: Native
English: Proficient

REFERENCES

Joan A. Casey, Assistant Professor, Department of Environmental Health Sciences, Columbia Mailman School of Public Health, jac2250@cumc.columbia.edu

Matthew Goodwin, Associate Professor, Bouvé College of Health Sciences, Northeastern University, m.goodwin@northeastern.edu

Jack Dennerlein, Professor, Bouvé College of Health Sciences, Northeastern University, j.dennerlein@northeastern.edu