Yufan Gong

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Education

UCLA **Los Angeles, CA**
Ph.D., Epidemiology *Sep 2021–Present*
Date of Advanced to Candidacy: 03/24/2022

UCLA **Los Angeles, CA**
M.S., Epidemiology *Sep 2019–Jun 2021*
•Related courses: Study Design, Analysis Methods, Causal Inference, Data management

Southeast University **Nanjing, China**
B.S., Preventive Medicine *Sep 2014–Jun 2019*
•Related courses: Infectious Disease, Medical Microbiology, Diagnostics

Skills

Software and programming

1: SAS: Certified Specialist
2: R: Advanced
3: Latex: Proficient
4: Microsoft Access: Proficient
5: Microsoft Excel: Proficient
6: Python: Intermediate
7: SQL: Intermediate
8: SPSS: Intermediate
9: Epidata: Basic
10: Stata: Basic

Data used

1: PEG: Parkinson's Environment and Gene
2: SALSA: Sacramento Area Latino Study on Aging
3: NHANES: National Health and Nutrition Examination Survey
4: NHIS: National Health Interview Survey
5: WONDER: Wide-ranging Online Data for Epidemiologic Research
6: BRFSS: Behavioral Risk Factor Surveillance System
7: All of US
8: MIMIC IV: Medical Information Mart for Intensive Care

Achievements

Award

UCLA Department of Epidemiology Award **Los Angeles, CA**
$500 *Apr 2024*

UCLA Department of Epidemiology Opportunity Grant **Los Angeles, CA**
$10,000 *Sep 2021–Jun 2022*

Publications

[1] Meleeka Akbarpour, Divya Devineni, Yufan Gong, and Nathan D. Wong. Dyslipidemia treatment and lipid control in us adults with diabetes by sociodemographic and cardiovascular risk groups in the nih precision medicine initiative all of us research program. *Journal of Clinical Medicine*, 12:1668, 2 2023.

[2] Divya Devineni, Meleeka Akbarpour, Yufan Gong, and Nathan D. Wong. Inadequate use of newer treatments and glycemic control by cardiovascular risk and sociodemographic groups in us adults with diabetes in the nih precision

medicine initiative all of us research program. *Cardiovascular Drugs and Therapy*, 1:1–11, 11 2022.

[3] Shiwen Li, Beate Ritz, Yufan Gong, Myles Cockburn, Aline Duarte Folle, Irish Del Rosario, Yu Yu, Keren Zhang, Emily Castro, Adrienne M. Keener, Jeff Bronstein, and Kimberly C. Paul. Proximity to residential and workplace pesticides application and the risk of progression of parkinson's diseases in central california. *Science of The Total Environment*, 864:160851, 3 2023.

[4] Kimberly C Paul, Myles Cockburn, Yufan Gong, Jeff Bronstein, and Beate Ritz. Agricultural paraquat dichloride use and parkinson's disease in california's central valley. *International Journal of Epidemiology*, 53, 2 2024.

Conference

American Heart Association Scientific Sessions 2021 **Boston, MA**
*Poster presentation, Yufan Gong * Nathan D. Wong* *Nov 13 2021–Nov 15 2021*

Professional Experience

Parkinson's Environment and Gene Study **Los Angeles, CA**
Data Manager *Jun 2020–Present*

- Led a team of 4 members, provided maintenance support for 23-year old databases
- Created 9 databases for data entry and contacting participants in Microsoft Access
- Monitored data entry progress using R and developed tools in R to check consistency between 2 entries by different research assistants
- Re-designed Dietary History Questionnaire III of 177 questions using Latex
- Conducted comprehensive interviews (memory exam, medical history, etc.) with 50+ participants

PH200A, Foundations in Public Health **Los Angeles, CA**
Teaching Assistant *Sep 2021–Dec 2021*

- Led discussions in a class of 219 students and held office hours to answer students' questions
- Graded the midterm and final exams

Changzhou Center for Disease Control and Prevention **Changzhou, China**
Data Analyst Intern at Tuberculosis Control Institute *Jun 2018–Sep 2018*

- Conducted an epidemiological survey about tuberculosis status among 483 people living with HIV/AIDS
- Collected and input relative data from the public database through Epidata 3.1
- Analyzed the data using SPSS 24.0 and found that nearly 20% of them were infected with tuberculosis, which was much higher than the healthy population

Jiangning Hospital affiliated to Nanjing Medical University **Nanjing, China**
Medical Intern of Clinical Practice Rotation *Jun 2017–Sep 2017*

- Measured blood pressure, blood sugar, and electrocardiogram for over 100 patients
- Logged admission records, progress notes, and medication history for patients
- Participated in the discussion about typical or special patients of their medical history

Research Experience

Parkinson's Environment and Gene Study **Los Angeles, CA**
Graduate Student Researcher *Jun 2020–Present*

- Applied univariate, unconditional logistic regression models combined with fixed-effect meta-analysis to assess the total effect (TE) of each pesticide and identified 52 PD-related pesticides using duration years as exposure measurement
- Assessed the relationship between copper-related pesticide exposure and DNA methylation level via EWAS and discovered 96 differentially methylated CpGs that were related to Copper exposure in 569 Parkinson's Disease patients

Diabetes and CVD Risk Factor Control and Treatment Patterns **Los Angeles, CA**
Research Analyst *Sep 2020–Jun 2021*

- Cleaned data for over 320,000 participants of over 20 million long format observations in All of US Study using R
- Categorized 34,000 ASCVD patients into very high risk (about 45%) and without very high risk
- Found the prevalence of diabetes and ASCVD was about 13% and 10% respectively in this population

The role of inflammation and stress-coping behaviors in incident dementia **Los Angeles, CA**
Graduate Student Researcher *Jul 2020- Jun 2021*

- Cleaned data for 1789 observations with 672 variables of Sacramento Area Latino Aging Study (SALSA), made Table1 based on physical activity level and did survival analysis including running Cox proportion models using R
- Cleaned data for over 5 million observations with 157 variables of The Behavioral Risk Factor Surveillance System (BRFSS) by creating functions and applied them with ”purrr” and ”srvyr” packages to realize loop of survey calculations
- Built and cleaned a database regarding smoking, soda, and Medicaid expansion policies and merged them with the CDC WONDER CVD mortality data

Cognition on diabetes and its influencing factors **Nanjing, China**
Research Analyst *May 2017–Apr 2018*

- Conducted a cross-sectional survey and blood glucose test among 5227 non-diabetic residents
- Analyzed the awareness of diabetes-related knowledge and its influencing factors in 4386 non-diabetics from the residents surveyed and found that only 336 (7.66%) were assessed with adequate diabetes knowledge among the non-diabetics
- Discovered gender, education and socioeconomic status were the major influencing factors by logistic regression

Application of recombinant yeast system in environmental estrogen detection **Yancheng, China**
Research Assistant *Feb 2017–Mar 2018*

- Applied yeast cells into collected water samples in a local water supplier of Yancheng
- Calculated β-galactosidase activity and constructed the standard dose-effect curve
- Found that the removal rate of estrogen is about 39.80% and concluded that the water treatment process could not effectively remove environmental estrogen

An empirical study of the hierarchical medical system based on systematic thinking **Nanjing, China**
Research Assistant *Dec 2016–Apr 2018*

- Conducted an offline survey among 1236 residents (response rate: 82.6%) in 5 different communities and implemented publicity
- Analyzed the questionnaire data by SPSS and found that nearly 80% of them were willing to see a doctor in a community level hospital when they did not have serious disease after intervention compared to 50% before intervention

Effect of dietary n-3 polyunsaturated fatty acids on glucose and lipid metabolism **Nanjing, China**
Research Assistant *Oct 2015–Dec 2016*

- Distributed capsules in a double-blinded randomized control trial on 30 type 2 diabetes patients with hypertriglyceridemia (HTG) for 6 months
- Analyzed the data by SPSS and found that the reduction value of blood glucose, triglyceride and the increased value of HDL in the intervention group (sea fish oil capsules 4g/d, containing 1.34g and 1.07g for EPA and DHA respectively) are significantly higher than the control group (corn oil capsules 4g/d) after 6 months

Leadership & Volunteer Experience

World Artificial Intelligence Conference 2018 **Shanghai, China**
Operation Team Member *Sep 2018–Sep 2018*

- Led a team of 6 members, assigned tasks to each based on their available time
- Guided the visitors and offered necessary help, for example, provided foreign guests with English support

Student Union **Nanjing, China**
Minister in Department of Sports *Dec 2016–Dec 2017*

- Logged students' health records and PE testing scores
- Recorded the participation rate of morning exercises
- Led a team of 10 members to hold a sports meeting which was attended by over 500 students

The Association of Youth AIDS Caring at Southeast University **Nanjing, China**
Volunteer *Dec 2015–Dec 2018*

- Organized and participated in over 10 sexual health lectures for college students
- Introduced HIV/AID related knowledge to over 1,000 local high school students and guided them to correctly view sex, gender, and sexual orientation to achieve peer education

Tongren Hospital **Nanjing, China**
Volunteer at Outpatient consultation table *Apr 2014–Sep 2014*

- Recorded the names of the visiting patients
- Offered nice guidance and water service to patients