

SUNING ZHAO

+1 (917) 592-6030 | suning_zhao@outlook.com | [LinkedIn](#)

EDUCATION

Columbia University Mailman School of Public Health

Master of Public Health in Biostatistics

Cumulative GPA: 4.05

New York, NY

Sept 2021–May 2023

Certificate in Comparative Effectiveness and Outcome Research

Related Courses: Health System | Decision Analysis for Clinical and Public Health Practice | Systematic Review & Meta-Analysis | Statistical

Computing with SAS | Linear Regression | Survival Analysis | Logistic Regression | Data Science | Introduction to RCT

Fudan University

Shanghai, China

Bachelor of Medicine in Basic Medical Sciences

Sept 2015–June 2020

Honors: Fudan University Outstanding Student Scholarship (2018-2019), Eisai Pharmaceutical Scholarship (2020)

Exchange experience: U21 Summer School, University of Cambridge, University of Oxford

Related Courses: Pharmaceutical Economics and Marketing | Introduction to Econometric Applications in Health Economics

SKILLS

- **Analytical Software:** Advanced in Microsoft PowerPoint, Microsoft Excel, and Think-cell; Mastered in Tableau, and Wind
- **Programming Language:** Advanced in SAS and STATA; Mastered in SQL, Tableau, and R

WORKING EXPERIENCE

Center of Health Policy, Columbia University School of Nursing

New York, NY

Research Assistant

Apr 2022- Current

- Participate in NIH-funded ACROSS-CARE project. Conduct statistical analysis based on our InHome survey from 536 home care services providers using **STATA**. Assist factor analysis using **Mplus** to create factors to evaluate infection control policy in home health agencies
- Manage and manipulate databases for research use. Familiarize with CMS databases (MDS, MedPAR, OASIS etc.), COVID-19 databases, and Social Determinants of Health databases

EmblemHealth

New York, NY

Summer Associate in Medical Economics

June 2022-Aug 2022

- Identified high-risk members for care management program with risk stratification modeling using **SAS** and **SQL** and presented the results on the dashboard for clinicians using **Tableau**
- Sorted out the most cost-effective providers for different specialties. The process included extracting data from **IBM Truven** database and applying dataset in **Excel** models
- Assisted provider contract documentation. Used **SAS** and **SQL** to extract data from database and use **Excel** to evaluate the performance of providers in the network in 2021

Bain & Company

Shanghai, China

Part-time Assistant (Autumn Pool)

Jan 2021-Apr 2021

- Assisted senior consultant with 7 due diligence projects in multiple industries, including medical equipment, pharmaceutical distribution, etc. Conducted desktop research and participated in 40+ expert interviews to provide data and insights into the target industry
- Participated in preparation of Bain & Company's 2021 *China Private Wealth Report*, assisting in raw data cleaning, Qualtrics questionnaire preparation, and result data analysis in Excel
- Used desktop research and first-hand data analysis to support weekly investment target screening service for a private equity client and to provide industry trend information and investment suggestions for the target company

PROJECT EXPERIENCE

Web-based vs Face-to-face Cognitive Behavioral Therapy for Anxiety in Adults

New York, NY

Advisor: Jeffrey L. Birk, Ph.D. & Talea Cornelius, Ph.D., MSW | Department of Medicine, Columbia University

Aug 2022

- Conducted **systematic review and meta-analysis** to compare web-based CBT with face-to-face CBT for anxiety in adults, including using PICOS to define topic; searching in Medline; using Covidence to review articles; applying the result to Excel model for meta-analysis
- Our result shows that web-based CBT is not inferior compared to face-to-face CBT, indicating that web-based CBT can be widely used

The effect of surgical and non-surgical obesity treatments on weight loss

New York, NY

Advisor: Serena Zhan | Department of Biostatistics, Columbia University

Apr 2022

- Conducted **cross-sectional and longitudinal analysis** to analyze the effect of surgical and non-surgical obesity treatments. Used **SAS** to manipulate data from a sample of 450 patients and conduct statistical analysis including ANOVA, linear regression, mixed effect model, and GEE
- The result shows that surgical therapy for obesity achieves greater weight loss than non-surgical therapy and treatment can modify the association between BMI in time series

RESEARCH EXPERIENCE

School of Basic Medical Sciences, Fudan University

Shanghai, China

Research Placement / Advisor: Prof. Xunjia Cheng

Sept 2019–June 2020

- Independently conducted research on basic molecular biology experiments as well as *Entamoeba histolytica*-related experiments
- Completed undergraduate thesis: Transfection and expression of TMK3 gene of *Entamoeba histolytica*

School of Public Health, Fudan University

Shanghai, China

Research Assistant / Advisor: Prof. Jiayan Huang

Mar 2019–Oct 2019

- Conducted research on two projects: China's contribution to malaria control from 1980 to 2019 and the relationship between two main Chinese malaria outbreaks after 1950
- Used **Note Express** and **BICOMB** (a bibliometrics tool) to analyze research provenance and metadata from Web of Science, CNKI, and Wanfang Data about China's malaria research from 1980 to 2019

Institutes of Brain Science, Fudan University

Shanghai, China

Research Assistant / Advisor: Prof. Hongying Sha

June 2017–Sept 2019

- Assisted with research on tumor cell metabolism and nuclear transplantation in embryos; raised mice and conducted experiments such as tail vein injection and oocyte retrieval
- In collaboration with my advisor, published a literature review of more than 30 papers on mitochondrial replacement technologies (MRT), with a discussion of future MRT research directions, in the journal *Chemistry of Life*

LEADERSHIP EXPERIENCES

2022 Bain Cup Case Competition

Greater China

Project Member & Data Analyst

Apr 2022-May 2022

- Collaborated with 4 team members and participated in the 2022 Bain Cup Case Competition. Independently completed a strategic planning case for a non-carbonated soft drink company. Awarded as **2022 Bain Cup Outstanding Case**.
- Conducted a customer survey for the target group and collected market data for the soft drink industry. Used Excel as well as SAS to analyze the result, and completed the graphical part by Think-Cell

Chinese Students and Scholars Association in CUMC

New York, NY

Vice President in Event and Operation Department

Oct 2021–Present

- Work as project manager, holding a series of events including festival gatherings, career development workshops, and send-off parties in Columbia University Irving Medical Center for Chinese students and scholars

PUBLICATIONS

- Zhao, S., Pan, J., Sha, H., etc. (2019). Mitochondrial Replacement Technique-Dawn for Patients with Inherited Mitochondrial Disease. *Chemistry of Life*, 5, 936–942.
- Xie, G., & Zhao, S. (2018). Cost-Utility Analysis of Liraglutide in Type 2 Diabetes Patients in China after Chinese Reformation of Medical Care System. *Journal of Biosciences and Medicines*, 6, 13–25.

LANGUAGE

- Mandarin (native), English (fluent) (GRE:155+170+3.5; TOEFL 103)