

Yidan HUYAN

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EDUCATION

Texas A&M University | College Station, TX

August 2018 – August 2020

Biostatistics, Master of Public Health

Completed 42 credits hours, Major GPA: 3.80

Michigan State University | East Lansing, MI

August 2013 - August 2017

Human Biology, Bachelor of Science

Completed 148 cumulative credits, Statistics & Calculus GPA: 3.72

LEADERSHIP

Biopharmaceutical summer academy group project leader | Remote, UConn

August 2020

Topic: Data visualization of a clinical trial in Phase II and Phase III

- Conducted analyses for both SDTM and ADaM datasets provided by Amgen Inc.
- Visualized trial characteristics and outcomes via table and figures (heatmap, density plot, bar chart).
- Came up the future dosage selection of Phase IV by comparing placebo and treatment groups via plots.
- Selected as final presenter out of 8 participated groups, designed and delivered oral final presentation.

Biostatistics course final project leader | College Station, TX

Fall 2019

Director: Dr. Hongwei ZHAO, Texas A&M University

Topic: Risk factors associated with ICU mortality.

- Performed statistical test to measure the risk factors associated with ICU mortality.
- Selected model by stepwise selection, writing an interpretation of analysis results and description of statistical methods used.
- Created tables and figures in publication-quality form summarizing the results of statistical analyses.

Project leader in laboratory study | East Lansing, MI

Fall 2015

Director: Lawrence Sonya, Michigan State University

Topic: Age differences and photosynthesis efficiencies in Acer trees.

- Operated the MultispeQ device to collect ΦII & SPAD III data from leaves.
- Identified the relationship between age and photosynthesis efficiencies of Acer trees by statistical test.
- Wrote lab reports and designed a poster for project presentation.

WORK EXPERIENCE

Statistical Consultant & Volunteer Research Assistant | College Station, TX

August 2020 – Present

Preceptor: Dr. Lixian ZHONG, Texas A&M University

- Provided technical planning to include overseeing the set-up of key macros and statistical programs.
- Developed the customized codes to utilize existing tools and applications to provide the outputs or to validate outputs for clinical bioinformatics.
- Built statistical models (e.g., univariate and multivariate logistic regression models) and employ statistical methods (e.g., t-test, chi-square test, PSM, multiple imputations) from claims data.
- Self-learned and performed statistical knowledge in areas including clinical trials and programming.

Student Technical Worker | College Station, TX**May 2020 – August 2020**

Preceptor: Dr. Lixian ZHONG, Texas A&M University

Topic: Neonatal abstinence syndrome in Texas, a retrospective observational study using Texas PUDF.

- Evaluated a recommend study design based on identified strengths and weaknesses and desired study goals.
- Wrote literature reviews to translate research questions into testable hypotheses.
- Provided descriptive summaries of programming outputs, including tables, plots, and lists.
- Analyzed weekly study results and statistical methods and presented them orally to PI and co-workers.

Volunteer Student Research Assistant | College Station, TX**August 2019 - August 2020**

Director: Dr. Xiaohui XU, Texas A&M University

Topic: Association between indoor air conditioner temperature and US obesity.

Physical activity, diet and their divergence of obesity in US.

- Performed data cleaning and adjusting of the National Health and Nutrition Examination and Survey.
- Calculated the prevalence of obesity of different groups by demographical factors.
- Performed statistical test to measure the dependences and relationship among variables.
- Wrote literature reviews of the divergence of obesity in diet and leisure activity.
- Transcoded the dataset and statistical code from SAS to Stata and R form.

Volunteer Student Research Assistant | College Station, TX**July 2018 - August 2019**

Director: Dr. Annette Regan, Texas A&M University

Topic: Association between prenatal e-cigarette use and adverse birth outcomes.

- Collaborated with Epidemiologist in updating database design.
- Analyzed dataset to interpret the effectiveness of e-cigarette to quit smoking.
- Interpreted relapse rate of women after giving birth and provided results.

Student Assistant | College Station, Texas**May 2020 – August 2020**

Preceptor: Dr. Lei-shih CHEN, Texas A&M University

Topic: Texas Chinese community health worker project.

- Interpreted the analyzation results and defined the weaknesses of the questionnaire design.
- Designed project website and did its English-Chinese language translation.
- Typed more than 20 hours of research interview audio records into around 200 thousand words form.

Medical Laboratory Technician | Yunnan, China**December 2015 - January 2016**

Director: Prof. Xuemei JIA, Kunming Medical University

Topic: Study of genetic differences among *Schistosoma japonicum* in three locations in Yunnan, China.

- Analyzed laboratory data using R studio.
- Assisted Parasitologist in design database by literature reviewing.
- Prepared PCR test to amplify and sequence mitochondrial of *S. japonicum*.

HONOR**Dean's List****Summer 2015 & 2017**

SKILLS**Computer:** Proficient -- R, SAS, Stata, Excel/Word/PowerPoint; Familiar – Access, Minitab, Photoshop**Languages:** Chinese-Mandarin (native), Japanese (general).

ACHIEVEMENTS

SAS Certified Base Programmer for SAS 9

Certificate of Outstanding Completion in 2020 UConn Summer Academy

VOLUNTEER

Sparrow Hospital | East Lansing, MI

Fall 2017 – August 2018

McLaren Hospital | East Lansing, MI

Fall 2017 – August 2018

Xi'an Angel Commonwealth Union | Shaanxi, China

December 2015

EXTRACURRICULAR ACTIVITIES

JiuGe Chinese Culture Club | Michigan State University

MDO Anime Club | Michigan State University

Graduate Student Hiking Club | Texas A&M University

COC Board Role-playing Games Club | Texas A&M University

COURSES

Mathematics

Calculus I&II, Linear algebra, Multivariable calculus, Matrix algebra

Statistics

Distribution theory, Methods of statistics, Data mining & analysis, Regression analysis

Biostatistics

Biostatistics I&II, Categorical data analysis, Analysis of longitudinal multi data, Survival analysis, Data management

Public Health

Epidemiologic methods, Public policy, Health promotion

Biology

Nutrition, Cells and molecules, Human genetics, Psychology, Microbiology, Immunology, Human gross anatomy

Chemistry

General chemistry, Organic chemistry I&II

RESEARCH INTERESTS

- Survival Analysis
- Oncology Study
- Clinical Trials
- Data Visualization
- Overdose Prevention