

# Yidan HUYAN

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## EDUCATION

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**Texas A&M University | College Station, TX**

**August 2018 – August 2020**

Biostatistics, Master of Public Health

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

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**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  $\Phi II$  & 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

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**Statistical Consultant & Volunteer Research Assistant | College Station, TX**

**August 2020 – Present**

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

Topic: SGLT2i use and risk of lower-extremity amputation.

- Provided technical planning to include overseeing the set-up of key macros and Stata program.
- Develops the customized codes to utilize existing tools and applications to provide the outputs or to validate outputs for clinical bioinformatics.
- Performed survival analysis, logistic and linear regression on client datasets.
- Self-learnt and preformed 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&amp;M University

Topic: Neonatal abstinence syndrome in Texas.

- Evaluated a recommend study design based on identified strengths and weaknesses and desired study goals.
- Wrote a literature review to translate research questions into testable hypotheses.
- Wrote a data brief for analysis data sets which originally recorded in ICD-9 & ICD-10 form.
- 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&amp;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&amp;M University

Topic: Quit smoking and e-cigarette usage among pregnant women.

- 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&amp;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*.

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

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

## ACHIEVEMENTS

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**SAS Certified Base Programmer for SAS 9**

**Certificate of Outstanding Completion in 2020 UConn Summer Academy**

## VOLUNTEER

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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

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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

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### **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

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