

# 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

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

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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

- 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.

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**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.

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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 – Access, Minitab, Photoshop

Beginner – Python, LaTeX

**Languages:** Chinese-Mandarin (native), Japanese (general)

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**ACHIEVEMENTS**

**SAS Certified Base Programmer for SAS 9**

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

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**WORK AUTHORIZATION**

Eligible to work in U.S. for 36 months with STEM Optional Practical Training.

10.2020-10.2023

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**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