Yitian(Adam) He

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EDUCATION

Cornell University **New York, NY**
Weill Cornell Graduate School of Medical Science
Master of Science in Biostatistics & Data Science Expected 06/2020

- **Anticipated Course Works:** Biostatistics, Statistical Programming with SAS, Categorical & Censored Data Analysis, Data Science, Study Design, Data Management with SQL, Big Data in Medicine,

University of Wisconsin - Madison **Madison, WI**
Bachelor of Science in Statistics Graduated 05/2019

- **Relevant Course Works:** Matrix & Linear Algebra, Applied Regression Analysis, Combinatorics, Statistical Experimental Design, Data Analysis with R, Data Analysis with Python, Statistical Survey & Methods, Computational Statistics, Deep Learning
- **Cumulative GPA:** 3.55/4.00

PUBLICATION

- Koffman, L., Rincon, F., Gomes, J., Singh, S., **He, Y.**, Ritzl, E., Bleck, T., Kaplan, P., Nyquist, P. "Continuous Electroencephalographic Monitoring in the Intensive Care Unit: A Cross-Sectional Study", Journal of Intensive Care Medicine 1-6 (2019), https://doi.org/10.1177/0885066619849889

WORK EXPERIENCES

Shenzhen Stock Exchange **Shenzhen, China**
Intern, Research Institute 07/2018 - 08/2018

- Webscraped OTC derivatives information from BIS (Bank for International Settlements) websites using Beautiful Soup in Python; identified the variation trend and market features by building time series plots through data visualization in Python Plotly
- Webscaped information of CDS (Credit Default Swap) from ICE (Intercontinental Exchange) websites; used "PSTR" package in R to build a linear panel regression model of CDS; generated plots with plotly and coded a Shiny App for the plots

Johns Hopkins Hospital **Baltimore, MD**
Research Assistant, ACCM Clinical Research Core 06/2018 – 07/2018

- Assisted Dr. Sarabdeep with studying whether the medical simulation intervention can improve the fundamental anesthesia skills of a sample of nurse anesthetists in Sierra Leone
- Implemented two sample t-test on the dataset provided by Dr. Howard Nelson-Williams using R and made plots with ggplot2; coded an interactive user interface including data visualizations

Johns Hopkins Hospital **Baltimore, MD**
Research Assistant, ACCM Clinical Research Core 06/2017 – 08/2017

- Assisted Dr. Sarabdeep on the largest and most recent study to investigate the current trend in cEEG (continuous electro-encephalographic) use across all ICUs worldwide
- Applied the logistic regression in R to study the odds of using the cEEG across institute type, ICU type, Hospital Location, Hospital size and Hospital bed size
- Retrieved P-values from 2-sided tests and made tables for the publication

SELECTED PROJECT

Diverse Facial Recognition Feb 2019 – May 2019

- Took subset of dataset VGG20; applied facial alignment on the pictures to make all the images be the same size
- Constructed a facial recognition model based on pre-trained ResNet34, modified the number of epochs, batch size, embedding size and learning rate; achieved accuracy of 69.65% on testing accuracy

SKILLS & OTHERS

Technical Skills: Java, Python, SQL, Google Colab, Matlab, R, Shiny App, SAS