

SHU HUANG, MS, MPH

443-527-3066 | shu.huang@ufl.edu | <https://www.linkedin.com/in/shu-huang-4b9bbb71>

EDUCATION

University of Florida, College of Pharmacy Gainesville, FL <i>Doctor of Philosophy in Pharmaceutical Outcomes and Policy</i>	08/2020-Expected 05/2024
Yale School of Public Health New Haven, CT <i>Master of Public Health in Biostatistics</i>	09/2018-05/2020
Johns Hopkins University, Krieger School of Arts and Science Baltimore, MD <i>Master of Science in Biotechnology</i>	09/2013-05/2015 GPA:3.80/4.0
Qiqihar University, College of Food and Biological Engineering Qiqihar, China <i>Bachelor of Engineering in Food Quality and Safety</i>	09/2009-07/2013

WORK EXPERIENCE

Yale School of Medicine Center for Outcomes Research & Evaluation (CORE) New Haven, CT ❖ Research Assistant	10/2019-Present
<ul style="list-style-type: none">Led the data cleaning and analysis of the Systolic Blood Pressure Intervention Trial (SPRINT) using R.	
Merck Center for Observational and Real-World Evidence (CORE) Rahway, NJ ❖ Study Manager Intern	05/2019-08/2019
<ul style="list-style-type: none">Designed and implemented a survey to identify and improve departmental inefficiencies for various process-oriented activities by clearly defining tasks for business system owner (BSO) and Process Owners (PO).Developed a programming method in SAS to identify and report quality control (QC) checks for the CORE book of business to ensure data accuracy and validate results.Managed vaccine studies by managing study budget and providing scientific feedback on protocol development.Led the data analysis to drive the global business decisions in the animal health therapeutic area by programming in SAS to showcase product usage and effectiveness for different clinical sites in France.	
Yale School of Public Health New Haven, CT ❖ Research Assistant	10/2018-08/2019
<ul style="list-style-type: none">Led the analysis of an HIV project by building a Structural Equation Model (SEM) using Stata which leads to publication (manuscripts under development).Conducted longitudinal data analysis on the Midlife in the United States (MIDUS) dataset using R to explore the relationship between religious beliefs and multiple biomarkers (manuscripts under development).	
Johns Hopkins Medicine Armstrong Institute for Patient Safety and Quality (AI) Baltimore, MD ❖ Research Data Analyst	01/2017-06/2018
<ul style="list-style-type: none">Strengthened the reliability of study results by establishing data quality assurance procedures.Managed the Safety Culture Assessment (SCA) database for 12 hospitals by generating comprehensive quarterly reports to evaluate team performance.Successfully developed data analysis for 3+ research manuscripts for publication (manuscripts under development).Managed a performance improvement project in support of improved infection rates at military treatment facilities across Navy Medicine by implementing Comprehensive Unit-based Safety Program (CUSP) trainings to educate staff on the science of safety.	
❖ Research Program Coordinator	07/2015-12/2016
<ul style="list-style-type: none">Coordinated in a national collaborative quality improvement project to eliminate Healthcare-associated Infection (HAI).Developed and led the data analysis plan for AHRO Safety Program for Mechanically Ventilated Patients: Final Report.Enhanced the data sharing system by initiating data dashboards for more than 250 participating sites.Improved data submission by 20% through a creative tracking system.Led the activities of a study cohort and actively collaborated with project partners and stakeholders.	
❖ Research Assistant	04/2014-05/2015
<ul style="list-style-type: none">Dedicated in a study aiming to eliminate infections rates for patients undergoing cardiovascular surgery.Managed the data platform from 11 hospitals by conducting QC checks and creating reports using Stata and R.	

Johns Hopkins Bloomberg School of Public Health Baltimore, MD

❖ Teaching Assistant

01/2015-05/2015

- Instructed and supervised students by providing feedback and course materials for two graduate level courses.
- Improved student participation through integration of creative role-playing exercises and peer review sessions.

MANUSCRIPTS

Chang, B. H., Hsu, Y.-J., Rosen, M. A., Gurses, A. P., **Huang, S.**, Xie, A., ... Thompson, D. A. (2019). Reducing Three Infections Across Cardiac Surgery Programs: A Multisite Cross-Unit Collaboration. *American Journal of Medical Quality*. <https://doi.org/10.1177/1062860619845494>

Hsu, Y.-J., Kosinski, A. S., Wallace, A. S., Saha-Chaudhuri, P., Chang, B. H., Speck, K., Rosen, M. A., Gurses, A. P., Xie, A., **Huang, S.**, Cameron, D. E., Thompson, D. A., Marsteller, J. A. (2018). Using a society database to evaluate a patient safety collaborative: the Cardiovascular Surgical Translational Study. *Journal of Comparative Effectiveness Research*. <https://doi.org/10.2217/ce-2018-0051>

Latif, A., Patel, N., **Huang, S.** (2019). Applying a Multifaceted Intervention to Targeting VAE across a Multi-Sectorial Cohort of Saudi ICUs. Unpublished manuscript.

Ransome, Y., Taggart, T., **Huang, S.** (2019). Higher spiritual beliefs among black men who have sex with men are associated with lower HIV incidence: results from HPTN 061 cohort study. Unpublished manuscript.

Ransome, Y., Taggart, T., **Huang, S.** (2019). Psychometric analysis of spiritual beliefs and spiritual activities between HIV-infected and HIV-uninfected black men who have sex with men: results from HPTN 061 cohort study. Unpublished manuscript.

Taggart, T., Ransome, Y., **Huang, S.** (2019). Where to intervene with religion and spirituality? Testing associations and effect modification for internalized HIV stigma, depression, alcohol use, and sexual risk behaviors among Black men who have sex with men (HPTN 061). Unpublished manuscript.

REPORTS

AHRQ Safety Program for Mechanically Ventilated Patients: Final Report

01/2017

Johns Hopkins Medicine | Armstrong Institute for Patient Safety and Quality

<https://www.ahrq.gov/sites/default/files/wysiwyg/professionals/quality-patient-safety/hais/tools/mvp/mvp-report.pdf>

ABSTRACTS

Impact of a Multifaceted Intervention on Ventilator-Associated Events (VAE): An analysis of sustainability of a successful two-state collaborative study

Presented as a poster at the Johns Hopkins 2017 Patient Safety Summit

Baltimore, MD

Implementation of Daily Care Processes and Daily Early Mobility Toolkits to Improve the Care of Mechanically Ventilated Patients

Presented as a poster at the Johns Hopkins 2016 Patient Safety Summit

Baltimore, MD

Presented as a poster at Society of Critical Care Medicine's (SCCM) 46th Critical Care Congress

Honolulu, HI

Presented as a poster at the 9th Conference on the Science of Dissemination and Implementation

Washington, D.C.

The Relationship between the Implementation of Subglottic Suctioning for Endotracheal Tubes and VAP

Presented as a poster at Society of Critical Care Medicine's (SCCM) 46th Critical Care Congress

Honolulu, HI

AWARDS & HONORS

Best Poster Award Johns Hopkins 2017 Patient Safety Summit

10/2017

Best Poster Session Johns Hopkins 2016 Patient Safety Summit

10/2016

PROFESSIONAL SKILLS AND CERTIFICATES

SAS Certified Base Programmer for SAS 9

04/2016

Software: Proficient in SAS, STATA, R, Python, Access, PowerPoint, Excel, Word, Publisher, Familiar with Tableaus.

Statistics: Machine Learning, Survival analysis, ANOVA, Linear regression, Categorical analysis, Longitudinal data

analysis, Survey design, Data management, Data visualization.

MEMBERSHIPS & AFFILIATIONS

American Public Health Association-Student Assembly (APHA-SA) New Haven, CT 10/2018-Present
Yale Campus Liaison

- Promoted Yale students' interest in public health by organizing board discussions and presentation symposium on campus during the National Public Health Week.

Yale Innovation & Entrepreneurship in Modern Healthcare (IEMH) New Haven, CT 10/2018-Present
Vice President

- Raised funding for startups by interviewing and generating case reports published on multiple platforms.
- Designed and managed the organizational webpage.

Hopkins Biotech Network (HBN) Baltimore, MD 06/2014-09/2015
Director of Social Media & Communications

- Increased the impact of HBN by establishing and managing social media accounts, including Facebook and LinkedIn.