



Yufan Hu

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EDUCATION

Tsinghua University | Master of Public Health 2021.09-2024.12
Fujian Medical University | Bachelor of Science, Nursing 2011.09-2015.07

WORK EXPERIENCE

Peking Union Medical College Hospital (PUMCH) | Emergency Nurse 2015.08-Present

RESEARCH

Master Project (Big Data and EHRs Study)

Predicting Adverse Outcomes in Septic Patients with Invasive Fungal Infections Using Machine Learning

- Datasets: Critical care public database MIMIC-IV, eICU Collaborative Research Database and PUMCH electronic health records (EHRs)
- Analysis methods: Through data extraction and multiple imputation of multi-center data, Lasso cross-validation is used to select key features, a variety of machine learning algorithms are trained and verified in different databases, the optimal prediction model is established and presented as interpretability model

Other projects

1. Utilizing Electronic Medical Record Text Mining for Predictive Identification of Diabetic Ketoacidosis (DKA) Risk in Patients
2. Optimizing Secondary Triage Practices: Predicting Emergency Patient Condition Changes with Decision Tree Models
3. Current Situation of Emotional labor in Emergency Department nurses and Its Impact on Job Engagement (Cross-sectional study)
4. Current situation and improvement methods of scientific and technological innovation and achievement transformation of young medical personnel (Cross-sectional study and cohort study)
5. Effect of Perceived of High-Performance Work Systemon Career Planning among Male Nurses in Tertiary Grade-A Hospitals (Cross-sectional study)
6. Establishment and effect evaluation of transfer program for critically ill patients (Intervention study and systematic review)
7. Analysis of the correlation between heart rate variability and poor prognosis in sepsis patients

PUBLICATIONS

1 . **Hu Y**, Sun P, Li F, et al. Effect of Perceived of High-Performance Work System on Career Planning among Male Nurses in Tertiary Grade-A Hospitals [J]. Chinese health quality management. 2023,30(06):10-14+24. doi:10.13912/j.cnki.chqm.2023.30.6.03

2 . **Hu Y**, Hu Y*, Xue Y, et al. Current situation of emotion labor of emergency nurses and its influence on job engagement [J]. Chinese Journal of Modern Nursing. 2020, 26(15):5. doi:10.3760/cma.j.cn115682-20200102-00028

3 . **Hu Y**, Zhang Li, Hu Y*. Research progress on risk and prevention of intra-hospital transfer in critical patients [J]. Chinese Journal of Modern Nursing. 2018, 24(14):3. doi:10.3760/cma.j.issn.1674-2907.2018.14.033

4 . Hu Y, **Hu Y**, Zhang Li, et al. Emergency nursing staff's awareness of intrahospital transport for critical patients [J]. Chinese Journal of Modern Nursing. 2018, 24(19):5. doi:10.3760/cma.j.issn.1674-2907.2018.19.019

- etc.

All articles are published in Chinese.

PATENTS

1 . **Hu Y**, Sun P, Li F, et al. Effect of Perceived of High-Performance Work System on Career Planning among Male Nurses in Tertiary Grade-A Hospitals [J]. Chinese health quality management. 2023,30(06):10-14+24. doi:10.13912/j.cnki.chqm.2023.30.6.03

2 . **Hu Y**, Hu Y*, Xue Y, et al. Current situation of emotion labor of emergency nurses and its influence on job engagement [J]. Chinese Journal of Modern Nursing. 2020, 26(15):5. doi:10.3760/cma.j.cn115682-20200102-00028

3 . Xue Y, Shi D, **Hu Y**, et al. A new type of medical restraint gloves. 2018. CN201820800466.3

SKILLS

Languages: Fluent in English; Native speaker of Chinese.

Statistical analyses: Skilled in R Studio, and Python, SPSS.

Database management: Skilled in Navicat and PostgreSQL.

Literature management: Skilled in EndNote and Zotero.

HONORS & AWARDS

First prize of "National College Micro-Lecture Teaching Competition in Medical English" 2019.12

Excellent worker of PUMCH (Twice) 2018.12; 2020.12

The excellent clinical teacher at Fujian Medical University Nursing School 2017.12