MAX E. SABER, DHA, MSHI

Curriculum vitae
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EDUCATION

Doctorate in Healthcare Administration (DHA) **November 2020**
Medical University of South Carolina, Charleston, SC
Department of Healthcare Leadership and Management, College of Health Professions
Dissertation: Risk of medical events for falls, fractures, confusion, and delirium for patients with filled prescriptions for drugs listed on Beers Criteria compared to well-matched controls.

Master of Science in Health Informatics (MSHI) **May 2014**
Northeastern University, Boston, MA
Khoury College of Computer Sciences & Bouvé College of Health Sciences
Thesis: Implementing a simulated electronic medical record system for undergraduate and graduate interprofessional healthcare education.

Bachelor of Science in Pharmaceutical Sciences **May 2012**
Massachusetts College of Pharmacy and Health Sciences, Boston, MA
Department of Pharmaceutical Sciences, School of Pharmacy

EMPLOYMENT HISTORY

Massachusetts College of Pharmacy and Health Sciences, Boston, MA
COVID-19 Data Scientist, COVID-19 Team September 2020 – present

- Maintained the COVID-19 testing and surveillance data warehouse integrating internal and external data sources
- In partnership with the COVID-19 Team Chair, reviewed and approved, or recommended changes to each of the University's Clinic Reopening Safety Plans
- Co-authored sections of the FlexPlan 2020 and the Return to Campus 2021 guide

Adjunct Professor, Healthcare Business January 2019 – present

- Developed 7 undergraduate, Master's, and Doctoral level courses in the areas of healthcare business, health informatics, data analysis and visualization, and statistical research methods
- Regularly evaluated assignment and course level assessment data in a year-over-year approach to ensure continued student success in meeting course outcomes and objectives
- Utilized a hands-on approach in all courses by integrating real-world tools such as, SPSS, Tableau, and SAS, as key course learning elements and objectives

Systems Engineer, Information Services January 2016 – present

- Lead the implementation and assumed operational responsibility of 4 of the 5 electronic health record systems used within the University's clinical spaces
- Manages teams consisting of systems engineers, security analysts, programmers & developers, and end-users for the implementation of new business applications
- Regularly leads discussions with department and business unit stakeholders to evaluate current processes and workflows; identifying areas for business process optimization

Adjunct Professor, Healthcare Administration May 2014 – December 2018

- Developed and delivered a course titled "Managing Healthcare Information Systems" as a core, required course in the Master of Healthcare Administration program with an average enrollment of 30 students per semester
- Assessed learning outcomes using written assignments, small group projects, and case studies

Systems Support Specialist, Information Services May 2012 – January 2016

- General administration and management of different information systems, including regular software updates, programming, scripting, and reconfiguration of program modules, and back-end SQL server and database maintenance.

Newport Hospital, Newport, RI
Performance Evaluation and Improvement Analyst June 2007 – August 2008

- Extracted patient care data using Lifespan's proprietary chart abstraction tools to ensure data consistency in care reporting databases
- Tracked core measures in accordance with standards set by the Joint Commission on Accreditation of Healthcare Organizations
- Analyzed core measure data and developed aggregated reports for use by various hospital departments and committees

Teaching Experience

Instructor of Record **May 2014 – present**
Massachusetts College of Pharmacy and Health Sciences

- Fully responsible for all aspects of syllabus design, course development, instruction, and assessment for each of the courses listed, delivered in an online, asynchronous format.

Data Collection, Analysis, and Representation in Healthcare

- This doctoral level course focused on data collection techniques, critical evaluation of data sources and datasets, and data visualization methods using various deidentified and synthetic research data sets. Students used SAS Foundation and SAS Enterprise Guide to learn statistical and data modeling techniques and SAS Visual Analytics Suite to construct visualizations and interactive dashboards.

Informatics & Data Analysis

- This Masters level course provides a hands-on approach to performing statistical data analyses on synthetic datasets to describe population characteristics, identify trends and associations, and how show data analytics are employed to answer real-world healthcare access and cost questions using SPSS. Students used Tableau during the course's data visualization modules building reports and interactive dashboards.

Business Statistics

- This Masters level course focuses on reinforcing the use of standard statistical methodologies in collecting, evaluating, and analyzing business and healthcare data. This course teaches students how tools like SPSS are used during the process of supporting managerial and organizational decision making.

Managing Healthcare Information Systems

- This Masters level course examined the use, management, and integration of healthcare information systems and data quality standards in today's healthcare environment. Emphasis was placed on the intersection of clinical information systems and the administrative functions of an Information Services department, IT service delivery, IT governance, data privacy and security, and organizational strategic planning.

Data Visualization

- This undergraduate-level course centers on the fundamental statistical and data analysis methods used in healthcare and health services research. Through this course, students are asked to analyze and interpret data while making informed business decisions based on the outcomes of their analyses. Students also were taught basic and intermediate data visualization techniques and best practices using Tableau's interactive data visualization software.

Research Experience

Doctoral Researcher — May 2019 – November 2020
Department of Healthcare Leadership and Management, Medical University of South Carolina

- Doctoral research conducted with Dr. Kit Simpson focusing on linking a set of selected side effects of Beers Criteria medications to their logically associated hospital admissions in community-dwelling elderly individuals aged 65 years and over.
- Independent doctoral research conducted with Dr. Mark Mellott focused on surveying commercially available, large market electronic health record (EHR) systems for their adverse event alerting and reporting capabilities with a specific focus on Beers' Criteria medications.

Undergraduate Researcher — January 2012 – April 2012
School of Pharmacy, MCPHS University

- Undergraduate independent research concentrated on how existing financial data validation models can be implemented for use within EHR systems to ensure the integrity of key patient data designated by Meaningful Use regulations.
- Drafted a manuscript titled "Employing Financial Data Validation Techniques to Achieve Meaningful Use Standards in a Certified EHR System."

Honors and Awards

May 2021	Deans Award, Medical University of South Carolina
May 2019	Innovative Solutions Award, MCPHS University
May 2014	Superior Employee Quality Service Award, MCPHS University
June 2008	Ralph A. Mollis Secretary of State Award for Civic Leadership, State of Rhode Island

Publications

Saber, ME., Risk of Medical Events for Falls, Fractures, Confusion, and Delirium for Patients with Filled Prescriptions for Drugs Listed on Beers Criteria Compared to Well-Matched Controls (2020). *MUSC Theses and Dissertations.* 534. https://medica-musc.researchcommons.org/theses/534

Invited Presentations

Saber, ME. HITECH and Meaningful Use. MCPHS University, School of Physicians Assistant Studies. June 6, 2020.

Saber, ME. Survey of Adverse Drug Alerting Capabilities for AGS Beers Criteria® Medications. Medical University of South Carolina. June 8, 2019.

Saber, ME. Examining the "July Effect" on the Prescribing of AGS Beers Criteria® Medications. Medical University of South Carolina. June 6, 2019.

Saber, ME. Information Technology and Electronic Health Record Systems. MCPHS University, School of Optometry. March 17, 2015.

Institutional Service

MCPHS University

April 2022 – present	Blackboard Ultra Pilot, Strategic Committee Member, and Pilot Participant
February 2022 – present	Blackboard Governance Committee, Member
February 2022 – present	Policy Development Subcommittee, Blackboard Governance Committee, Chair
February 2021 – May 2021	COVID-19 Vaccine Committee, Member
September 2020 – present	COVID-19 Response Team
March 2020 – present	Campus Operations Subcommittee, Recovery and Planning Task Force, Member

Pedagogical Development

Spring 2022	Health Data Programming and Database Structure Health Data Security and Ethics
Fall 2021	Data Collection, Analysis, and Representation in Healthcare
Summer 2021	Data Visualization (course redevelopment)
Summer 2019	Business Statistics (course redevelopment)
Spring 2019	Clinical Informatics and Data Analysis
Fall 2018	Informatics & Data Analysis
Summer 2014	Managing Healthcare Information Systems

Professional Activities

September 2013 – August 2016	Secretary, Alumni Association Board of Directors, MCPHS University
September 2013 – August 2014	Secretary, Young Alumni Association Board of Directors, MCPHS University

Professional Memberships

2021 – present	Alpha Eta Society
2021 – present	Upsilon Phi Delta Honor Society
2017 – present	American College of Healthcare Executives
2017 – present	LGBTQ Healthcare Leaders Community, American College of Healthcare Executives
2013 – present	American Health Information Management Association
2012 – present	Healthcare Information and Management Systems Society

Professional Licensures and Certifications

Certified Professional in Healthcare Information and Management Systems (CPHIMS), Health Information and Management Systems Society, anticipated December 2022

Certified Health Data Analyst (CHDA), American Health Information Management Society, anticipated December 2022

Technical Skills

Data management, data science and analytics, database design and management, system architecture and administration, Tableau, SAS Foundation, SAS Enterprise Guide, SAS Viya/Visual Analytics, SPSS, and Stata.

Research Interests

Healthcare administration, health services research, patient safety and healthcare quality, cost, and comparative effectiveness, social determinants of health, and health issues and disparities in the LGBTQIA+ community.

Outreach and Public Engagement

2020 – 2021 Winter Park Pride Project, Winter Park, FL
2015 – 2019 Harbor to the Bay, Boston, MA