



FACULTY FULL NAME: ZAHRAA M ALAKRWAI, PhD

POSITION: Assistant Professor

Personal Data

Nationality | Saudi

Date of Birth | March, 5th

Department | Health Information Management and Technology

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Bio:

Zahraa M Alakrawi is an assistant professor within the Department of Health Information Management and Technology (HIMT), College of Public Health at Imam Abdulrahman Bin Faisal University. Zahraa earned her PhD in Rehabilitation Sciences (*Minor: Health Information Management*) from the University of Pittsburgh, Pittsburgh, Pennsylvania, United States in 2017. Her major research interest is in the area of health care terminology and classification systems and how data analytics could be utilized in the field of health information management. She was awarded the “Joel Nagorner Endowed Research Scholarship” by the AHIMA foundation in 2016 and “Laurine M. Johnson Endowed Student Resource Award” by University of Pittsburgh in 2017 for her distinguished work and dissertation entitled “Data Analytics of Codified Patient Data: Identifying Factors Influencing Coding Trends, Productivity, and Quality.” Since joining the university in 2017, Zahraa has been involved in teaching many undergraduate and graduate courses within the HIMT Department such as Health Data Classification & Coding Systems I, Health Data Classification & Coding Systems II, and Health Policy and Regulation. In addition to her teaching responsibilities, she is currently the HIMT Community Service Coordinator, the Head of HIMT Graduation Projects Committee, and a member in Community Service Committee as well as Graduation Projects Committee in the College of Public Health. She is also a member of the Professional Exams Initiative Advisory Committee under the IAU’s Vice Rector of Academic Affairs.

Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Data Analytics of Codified Patient Data: <i>Identifying Factors Influencing Coding Trends, Productivity, and Quality</i>
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Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2017	PhD	University of Pittsburgh	Pittsburgh, United States
2012	MSc	University of Pittsburgh	Pittsburgh, United States
2007	BSc	King Faisal University	Dammam, Saudi Arabia

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Assistant Professor	IAU	Dammam	Saudi Arabia	2017- Present
Predoctoral Fellow	University of Pittsburgh	Pittsburgh	United States	2016-2017
Product Management Intern	M*Modal	Pittsburgh	United States	2012
Lecturer	University of Dammam	Dammam	Saudi Arabia	2012- 2017
Demonstrator	King Faisal University	Dammam	Saudi Arabia	2008-2012

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
HIMT Graduation Projects Committee Head	Department of Health Information Management and Technology	October 2019
HIMT Community Service Coordinator	Department of Health Information Management and Technology	September 2019
HIMT Quality and Accreditation Coordinator	Department of Health Information Management and Technology	Jan 2018- Oct 2018
Training and Internship Coordinator	Department of Health Information Management and Technology	2009-2010

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s), Journal, Publisher, Date
1	DemahAls Salman, MSc; ArwaAlumran, PhD; SajaAlrayes, PhD; ArwaAlthumairi, PhD, Sama'aAlmubarak, PhD; SumaiahAlrawiai, PhD; ZahraaAlakrawi, PhD; BeyanHariri, MSc; TurkiAlanzi, PhD, Implementation Status of Health Information Systems in Hospitals in the Eastern Province of Saudi Arabia, Informatics in Medicine Unlocked, 2020 (Co-authored Journal Article)
2	Arwa Alumra, PhD; Luloah Almulhim, BSc; Bainah Almulhim, BSc; Shouq Bakoodah, BSc; Zahraa Alakrawi, PhD, Preparedness and Willingness of Deantal Care Provider to Treat Patients with Special Needs. Clinical, Cosmetic and Investigational Dentistry, 2018 (Co-authored Journal Article)
3	Zahraa Alakrawi, PhD, DATA ANALYTICS OF CODIFIED PATIENT DATA: IDENTIFYING FACTORS INFLUENCING CODING TRENDS, PRODUCTIVITY, AND QUALITY, Pitt D-Scholarship, 2017 (Doctoral Dissertation)



4	Zahraa Alakrawi, MS, HIS; Valerie Watzlaf, PhD, MPH, RHIA, FAHIMA; Scot Nemchik, CCS; and Patty Sheridan, MBA, RHIA, FAHIMA, New Study Illuminates the Ongoing Road to ICD-10 Productivity and Optimization, Journal of AHIMA, 2017 (Journal Article)
5	By Zahraa M Alakrawi, MS, Clinical Terminology and Clinical Classification Systems: A Critique Using AHIMA's Data Quality Management Model, Perspectives in Health Information Management (PHIM), 2016 (Journal Article)
6	by Zahraa M. Alakrawi, MS; Valerie Watzlaf, PhD, RHIA, FAHIMA; Jon Aborde, RHIA; Carey Johnson, RHIA; and Timothy Johnson, RHIA, Utilizing Open-Source Government Data Sets in Health Information Management Teaching: An Application in Statistics and Data Analytics, Educational Perspectives in Health Information Management (PHIM), 2016 (Co-authored Journal Article)
7	Valerie Watzlaf, PhD, RHIA, FAHIMA; Zahraa Alakrawi, MS, HIS; Sandy Meyers, RHIA; and Patty Sheridan, MBA, RHIA, FAHIMA, Physicians' Outlook on ICD-10-CM/PCS and Its Effect on Their Practice, Perspectives in Health Information Management (PHIM), 2015 (Co-authored Journal Article)

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s), Research Title, Conference and Publication Date
1	Zahraa Alakrawi, PhD; Interdisciplinary Education in Health Information Management: Adopting an Interdisciplinary Approach in Capstone Projects, AHIMA Middle East 2021, (Speaker)
2	Zahraa Alakrawi, PhD; Batool Alhamdan, BSc; Fatimah Alsaheed, BSc; Mariam Alkhalifa, BSc, Factors Affecting Utilization of Ambulatory Care Services in the Eastern Province in Saudi Arabia, 19th IFHIMA International Congress Dubai, 2019 (Speaker)
3	Zahraa Alakrawi, PhD, : IDENTIFYING FACTORS INFLUENCING CODING TRENDS, PRODUCTIVITY, AND QUALITY, AHIMA World Congress Abu Dhabi 2019 (Speaker)
4	Mary Butler, Coding Checkup: Determining the New Normal for Coding Accuracy in a Post-ICD-10 World, AHIMA, 2017 (Guest speaker, Interview)
5	Scot Nemchik, New Study Illuminates the Ongoing Road to ICD-10 Productivity and Optimization, AHIMA Annual Convention, San Diego, United States, 2016 (Co-author and Data Analyst)
6	Zahraa M Alakrawi, MS HIS, Valerie J.M. Watzlaf, Ph.D., RHIA, FAHIMA, Utilizing Open Government Data Sets in HIM Teaching: An Application in Statistics and Data Analytics, Austin, Texas, United States, 2015 (Speaker)

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	Scot Nemchik, New Study Illuminates the Ongoing Road to ICD-10 Productivity and Optimization, AHIMA Annual Convention, San Diego, United States, 2016 (Co-author and Data Analyst)		
2	Zahraa M Alakrawi, MS HIS, Valerie J.M. Watzlaf, Ph.D., RHIA, FAHIMA, Utilizing Open Government Data Sets in HIM Teaching: An Application in Statistics and Data Analytics, Austin, Texas, United States, 2015 (Speaker)		



Scholarships & Awards

#	Award	Organization	Date
1	Laurine M. Johnson Endowed Student Resource Award	University of Pittsburgh	2017
2	Joel Nagorner Endowed Research Scholarship	AHIMA Foundation	2016

Membership of Scientific and Professional Societies and Organizations:

- Member of the American Health Information Management Association (AHIMA)
- Member of the Western Pennsylvania Health Information Management Association (WPHIMA)

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Graduation Project	HIMT428	Credit: 6
2	Health Data Classification & Coding System II	HIMT 321	Credit: 4
3	Health Information Management in Non-Acute Care	HIMT 413	Credit: 3
4	Health Data Classification & Coding System I	HIMT 311	Credit: 4
5	Application of Statistical Concepts in HIM (University of Pittsburgh)	HIM-1442	Credit: 3
6	Health Data Classification & Coding System II	HIMT 322	Credit: 4
7	Health Information Management in Acute Care	N/A	Credit: 3
8	Principles of Health Care Management	N/A	Credit: 3
9	Computer Fundamentals in HIM	N/A	Credit: 2
10	Reimbursement Methodology	HIMT 428	Credit: 2

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

1	<p>Health Information Management in Non-Acute Care (HIMT 413)</p> <p>This course introduces students to the procedures for the maintenance and regulation of medical records in non-hospital medical care facilities: long-term care, home care, correctional health care and rehabilitation record keeping systems. The role of the Health Information Management (HIM) professionals in each of these settings is emphasized throughout the course. The fieldwork part consists of supervised visits to HIM departments of non-acute care settings. Students will observe and inquire about points covered in the theoretical part of the course.ambient air sampling, measurement and analysis, air pollution monitoring, the role of meteorology on air pollution, air quality criteria, emission and emission standards, stack gas sampling and analysis, dispersion of air pollutants, emission inventory, introduction to air pollution modeling, sound and measurement, noise concepts, sources of noise, noise standards and guidelines as well as techniques for managing noise.</p>
2	<p>Application of Statistical Concepts in HIM (HIM-1442)</p>



	This course is designed to provide students with a practical understanding of the use of statistics in health information management. The course will focus on the management and organization of health data and the appropriateness of using specific statistical techniques and statistical software with health information related data. Descriptive statistics, inferential statistics, and non-parametric statistics will be discussed and utilized with HIM data. Database development, research articles, and projects will be used to learn the meaning of statistics and its use in the field of HIM.
3	Health Data Classification & Coding System I (HIMT 311) This course will enable students to be part of health information management team, responsible for accurate, complete, timely and consistent coding practice for health data through adherence to the ICD-10-AM coding conventions and official coding guidelines. Besides responsibility to protect the confidentiality and security of health information and health records, they are also responsible for providing the accurate code necessary for morbidity and mortality statistics, reimbursement systems and automated decision support in medicine. This system is designed to promote international comparability in the collection, processing, classification, and presentation of these statistics.
4	Health Data Classification & Coding System II (HIMT 321) This course will enable students to be part of health information management team, responsible for accurate, complete, timely and consistent coding practice for health data through adherence to the ICD-10-AM coding conventions and official coding guidelines. Besides responsibility to protect the confidentiality and security of health information and health records, they are also responsible for providing the accurate code necessary for morbidity and mortality statistics, reimbursement systems and automated decision support in medicine. This system is designed to promote international comparability in the collection, processing, classification, and presentation of these statistics.

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Healthcare Policy and Regulation	MQPS604	Credit: 2
2	Master Capstone	MQPS695	Credits: 3

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	Healthcare Policy and Regulation (MQPS604) This course provides students with overall understanding of the role of healthcare policy and regulations in the delivery of healthcare. The course focuses on how policies, financing, coverage, regulatory requirements and accreditation standards affect healthcare delivery and issues of quality, safety, equity, effectiveness, and cost. Students also study the Saudi healthcare system in comparison to that of other developed countries particularly the US to build a good understanding of its performance compared to those countries.
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Student Academic Supervision and Mentoring

#	Level	Number of Students	From	to
1	2	6	2017	Present
2	4	2	2018	2018



Supervision of BSc Projects, Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	BSc Graduation Project	READINESS FOR PRIVATIZATION OF HEALTHCARE IN EASTERN PROVINCE, SAUDI ARABIA: CLINICAL CODING EVALUATION	Imam Abdulrahman Bin Faisal University	2017-2018
2	BSc Graduation Project	FACTORS AFFECTING UTILIZATION OF AMBULATORY HEALTHCARE SERVICES IN EASTERN PROVINCE IN SAUDI ARABIA	Imam Abdulrahman Bin Faisal University	2018-2019
3	Master Capstone Project	STAY CONNECTED: APPLICATION OF LINE RECONCILIATION TO PREVENT TUBING MISCONNECTION AND ENSURE PATIENT SAFETY AND QUALITY CARE	Imam Abdulrahman Bin Faisal University	2018-2019
4	Master Capstone Project	Improve Dietary Services Quality by Using Six Sigma methodology	Imam Abdulrahman Bin Faisal University	2019-2020
5	Master Capstone Project	Patient Involvement in Treatment Plan and its Impact on Patient Experience	Imam Abdulrahman Bin Faisal University	2019-2020

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	Jan 2018	Oct 2018	HIMT Quality Coordinator	Imam Abdulrahman Bin Faisal University
2	2009	2010	HIMT Training and Internship Coordinator	Imam Abdulrahman Bin Faisal University

Committee Membership

#	From	To	Position	Organization
1	2017	Present	Member: HIMT Curriculum Committee	Imam Abdulrahman Bin Faisal University
2	2017	Present	Member: HIMT Quality Committee	Imam Abdulrahman Bin Faisal University
3	2017	Present	Member: HIMT Students Affairs and Community Service Committee	Imam Abdulrahman Bin Faisal University

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2018	Present	Community Service- Health Information Awareness Campaign	Imam Abdulrahman Bin Faisal University
2	2015	2017	Community Service- Arabic Teacher for Immigrant Children	Pittsburgh, Pennsylvania, United States



Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Quantitative Data Analysis: SPSS & SAS
2	Qualitative Data Analysis: Nvivo
3	Database Management: SQL
4	Graphic Design

Last Update

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