Curriculum Vitae (C.V.)

General Information

Full Name: Mohammad Mehdi Ghaemi

Title: PhD, MD, Assistant professor

Gender: Male

Date of Birth: 23 Sep, 1977

Office Address:

1) Department of Health Information Management, Kerman University of Medical Sciences, Kerman, Iran, University Campus, Haft-Bagh Highway, Kerman, Iran P.O. Box: 7616913555 Tel: 0098- 34-31325000

2) Medical Informatics Research Centre, Institute for Futures Studies in Health, Kerman University of Medical Sciences, Kerman, Iran, University Campus, Haft-Bagh Highway, Kerman, Iran

E-mail: dr.mghaemi@gmail.com, mm.ghaemi@kmu.ac.ir

Educations and Trainings

- 2011-2016: PhD in Medical Informatics, Shahid Beheshti University of Medical Sciences, Tehran, Iran

  Thesis: Design and evaluation of a clinical decision support software to diagnose cardiac chest pain in patients visiting emergency department

- 1996-2003: M.D, Kerman University of Medical Sciences, Kerman, Iran

  Thesis: Design, develop and evaluation of an anatomy software

Other Certificates

- Machin Learning master course (Andrew NG, Stanford University) – 2018 at Coursera
- GIS - 2014
- Photoshop Trainer - 2001

Administrative positions and work experiences

- 2023-Present: Member of registry workgroup, KUMS, Kerman, Iran
- 2022-Present: Deputy of Faculty of Management and Medical Information Sciences, KUMS, Kerman, Iran
- 2022-Present: Member of education and innovative technologies workgroup, KUMS, Kerman, Iran

- 2021-Present: Head Director of Medical Informatics Research Center, KUMS, Kerman, Iran
- 2021-Present: Head Director of Telemedicine, KUMS, Kerman, Iran
- 2018-Present: Assistant professor, Faculty of Management and Health Information Sciences, KUMS, Kerman, Iran
- 2018-2021: President's advisor of KUMS, Kerman, Iran
- 2015-2018 Manager of Helal Dental Clinic, Kerman RCS, Kerman, Iran
- 2012-2015: Head of Emergency Operation Center, Kerman RCS, Kerman, Iran
- 2009-2012: Head of R&D team, Teb Va Rayaneh Co., Tehran, Iran.
- 2007-2009: Member of R&D team, Rayavaran Co., Tehran, Iran.

Membership in scientific committee

- Member of Administrative Committee for Electronic Health Record in KUMS, Kerman, Iran
- Member of research council, KUMS, Kerman, Iran

Publications

Journals:

- Salmanpour, M. R., Bakhtiyari, M., Hosseinzadeh, M., Maghsudi, M., Yousefirizi, F., **Ghaemi, M. M.**, & Rahmim, A. (2023). Application of novel hybrid machine learning systems and radiomics features for non-motor outcome prediction in Parkinson's disease. Physics in Medicine & Biology, 68(3), 035004.
- Salmanpour, M. R., Hosseinzadeh, M., Bakhtiari, M., Gholami, A. R., **Ghaemi, M. M.**, Nabizadeh, A. H., ... & Rahmim, A. (2022). Drug Amount Prediction in Parkinson's Disease Using Hybrid Machine Learning Systems and Radiomics Features.
- Amiri, P., Moulaei, K., Bahaadinbeigy, K., **Ghaemi, M. M.**, & Sheikhtaheri, A. (2022). The information-seeking behavior of medical sciences students toward COVID-19 in mass and social media: a cross-sectional study. Health Science Reports, 5(3), e648.
- Salmanpour M. R., Hosseinzadeh M., Modiri E., Akbari A., Hajianfar G., Askari D., Fatan M., Maghsudi M., Ghaffari H., Rezaei M., **Ghaemi M. M.**, & Rahmim A. (2022). Advanced survival prediction in head and neck cancer using hybrid machine learning

systems and radiomics features. In Medical Imaging 2022: Biomedical Applications in Molecular, Structural, and Functional Imaging (Vol. 12036, pp. 314-321). SPIE.

- Moulaei, K., Bahaadinbeigy, K., Ghaffaripour, Z., & **Ghaemi, M. M.** (2021). The design and evaluation of a mobile based application to facilitate self-care for pregnant women with preeclampsia during COVID-19 prevalence. Journal of biomedical physics & engineering, 11(4), 551.

- Salmanpour, M. R., Hajianfar, G., Rezaeijo, S. M., **Ghaemi, M. M.**, & Rahmim, A. (2021). Advanced automatic segmentation of tumors and survival prediction in head and neck cancer. In 3D Head and Neck Tumor Segmentation in PET/CT Challenge (pp. 202-210). Cham: Springer International Publishing.

- Hoseini, F., Sarafi-Nejad, A., & **Ghaemi, M. M.** (2021). Prioritization of the Prominent Data Items from the Perspective of Physicians: Designing a Physician Desk Panel in the Information System of University Teaching Hospitals. Health Information Management, 18(3), 97-102.

- **Ghaemi, M. M.**, Moghaddasi, H., & Kazemi, A. (2017). Using clinical decision support systems to differentiate cardiac from non-cardiac chest pain. Journal of Hospital, 16(1), 9-16.

- Moghaddasi, H., & **Ghaemi, M. M.** (2015). A Comparative Study of Three Standards of Data Security in Health Systems. Journal of Health and Biomedical Informatics, 2(3), 184-194.

Books:

- M. KarimiMobarakeh, A. Khoshnasab, H. Sedighi, MM. Ghaemi. The principles of Orthopedi, Tabib Publishing, 2003

Research Projects

- Effectiveness of using virtual reality in reducing pain, fear and anxiety in the pediatric oncology patients – In progress
- Designing a caesarean prediction tool using artificial intelligence – In progress
- Predicting the outcome of laminectomy using artificial intelligence – 2023
- Predicting Repeated Suicide by Machine Learning Algorithms - 2022
- Predicting the pharmaceutical requirements of Afzalipour Hospital in Kerman - 2022

- Design and Development of a Web-Based Registry to record information of patients with phenylketonuria in Kerman province - 2022
- The role of virtual education in improving self-care to prevent Covid19 - 2021
- Design of a breastfeeding education application and evaluation its effect on knowledge and attitude of primiparous mothers in exclusive breastfeeding in postpartum period.
- Geographic cluster analysis of suicide and investigating factors affecting it with the purpose of presenting preventive solutions in Kerman city - 2021
- Design, implementation and evaluation of educational curriculum in "Clinical Informatics" for medical universities in Iran: Part 1- Need assessment and curriculum development.
- Usability evaluation of hospital information system of emergency department in Kerman educational hospitals - 2021
- Effect of Hospital Information System on processes and personnel function from users' viewpoint in the hospital affiliated to Kerman University of Medical Sciences – In Progress
- Design and development of Diabetic Foot Registry - 2020
- Evaluation of Healthcare Providers Readiness and Related Factors on Implementing Electronic Health Records in Educational Hospital of Kerman University of Medical – 2019
- Redesigning and Automation of The Electronic Discharge Summary in Shafa Educational Hospital in Kerman Affiliated with Kerman University of Medical Science – 2018
- Needs Assessment for Designing the Electronic Desk (Physician's Panel) in Hospital Information System in Teaching Hospitals of Kerman University of Medical Sciences – 2018
- Design, develop and evaluation of trunk Anatomy Software – 2002

Other Projects

- Design and project management of a virtual clinic – 2022
- Design and develop a project management and project sharing mobile app. – in progress
- Design and project management of SERA(a machine learning windows desktop tools - 2021)
- Design and project management of a drugstore-patient coupler application – 2020
- Design an automated data exchange for exporting data from HIS to SAJAD, Kerman, Iran – 2018

- Design of an Insurance Dashboard for HIS – KUMS, Kerman, Iran - 2016

- Design an Integrated web based HIS for Helal Clinic Complex – Kerman, Iran - 2015

- Design of an Electronic Relief Application for disasters – RCS, Kerman, Iran – 2014

- Head of BPMN team for Zarand Sina Hospital, Zarand, Iran – 2013

- Collaboration in design and develop of Physician Information System – IRIMC, Tehran, Iran – 2012

- Design of a Rapid Earthquake Alarm System – RCS, Tehran, Iran – 2012

- Design of a windows mobile based English Learning Application – 2011

- Design of Mobile-EOC android application – RCS, Tehran, Iran – 2011

- Design a flexible form designer for research purposes - 2011

- Collaboration in connecting HIS to SEPAS – Teb Va Rayaneh Co., Tehran, Iran – 2010

- Collaboration in design of a web based HIS – Teb Va Rayaneh Co., Tehran, Iran - 2009

- Design of Billing Engine for HIS – Rayavaran Co., Tehran, Iran – 2008

Skills

- SQL – Advanced Level

- Visual Studio .Net (VB/C#) – Advanced Level

- MAUI/Xamarin – Advanced Level

- Delphi – Intermediate Level

- GIS (ArcGIS – Web - Mobile) – Advanced Level

- Photoshop – Advanced Level

- ICDL – Advanced Level

- Python – Intermediate Level

- Octave – Intermediate Level

- C++ – Intermediate Level

- Qt – Intermediate Level

- Machine Learning and Deep Learning (Python-ML.Net) – Advanced Level

- Data mining (Orange/Python) – Intermediate Level

- Health Informatics Project Management

National or International Conferences

- Artificial Intelligence in Medicine – Kish – 2023 – Participate

- Artificial Intelligence in Medical Imaging – Tehran – 2019 – Participate
- 1st Medical Informatics Conference – Mashhad – 2017 – Oral / Expert Panel
- 2nd Medical Informatics Student Conference – Tehran – 2011 – Oral / Scientific team