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

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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

- 2024-Present: Member of the High Council of Artificial Intelligence, KUMS, Kerman, Iran
- 2023-Present: Member of education and innovative technologies workgroup, KUMS, Kerman, Iran

- 2022-Present: Educational deputy of school of Management and Medical Information Sciences, KUMS, Kerman, Iran
- 2022-Present: Member of university's graduate studies council, KUMS, Kerman, Iran
- 2022-Present: Member of the university committee for total quality management in education subsequent to the comprehensive program of justice, excellence, and efficiency in medical science education, KUMS, Kerman, Iran
- 2022-Present: In charge of the program to achieve authority in "Telemedicine", KUMS, Kerman, Iran
- 2021-Present: Director of Medical Informatics Research Center, KUMS, Kerman, Iran
- 2020-2021: Member of School of Medicine advisor group, KUMS, Kerman, Iran
- 2018-Present: Assistant professor, Faculty of Management and Health Information Sciences, 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:

- **Ghaemi, M. M.**, Ehtemam, H., Ghasemian, F., Bahaadinbeigy, K., & Sadeghi-Esfahlani, S. (2024, June). Predicting Suicide Cases Using Deep Neural Network. In Science and Information Conference (pp. 182-192). Cham: Springer Nature Switzerland.
- Ehtemam, H., Sadeghi Esfahlani, S., Sanaei, A., **Ghaemi, M. M.**, Hajesmaeel-Gohari, S., Rahimisadegh, R., & Shirvani, H. (2024). Role of machine learning algorithms in suicide risk prediction: a systematic review-meta analysis of clinical studies. BMC medical informatics and decision making, 24(1), 138.

- Nabizadeh, A. H., **Ghaemi M. M.**, & Goncalves D.. "Predicting the pharmaceutical needs of hospitals using machine learning algorithms." International Journal of Data Science and Analytics (2024): 1-15.

- Norouzi, H., Mehrolhassani, M. H., Hajesmaeel-Gohari, S., Ahmadian, L., **Ghaemi, M. M.**, Mohammadi, M., & Khajouei, R. (2023). Identification and classification of indicators for evaluating health information systems. Health Policy and Technology, 100833.

- Behnam, F., Khajouei, R., Nabizadeh, A. H., Saedi, S., & **Ghaemi, M. M**. (2023). Usability evaluation of emergency information systems in educational hospitals in Kerman, Iran. BMC Medical Informatics and Decision Making, 23(1), 277.

- Shakibaie MR, Modaresi F, Azizi O, Tadjrobehkar O, **Ghaemi MM**. Amphiphilic peptide Mastoparan-B induces conformational changes within the AdeB efflux pump, down-regulates ade B gene expression, and restores antibiotic susceptibility in an MDR strain of Acinetobacter baumannii. Proteins: Structure, Function, and Bioinformatics. 2023;91(9):1205-1221.

- 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:

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

Research Projects

- Automatic Diagnosis of Retinal Diseases using Deep Learning – In progress
- Application of artificial intelligence for diagnosis of oral malignant lesions using intraoral photographs – In progress
- The effect of virtual reality technology on anxiety and stress during in vitro fertilization (IVF) and intrauterine insemination (IUI) procedures: a combined study – In progress
- 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
- Analyzing the compliance degree of medical services with the final diagnosis of patients using clustering techniques – In progress
- Investigating the Effectiveness of a Mobile-based Application Facilitating Home-Therapy processes on the Quality of Life in Hemophilia Patients – 2023
- Clustering and analysis of healthcare workers of Afzalipour Hospital in Kerman – 2023
- 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