



## Masoud Shafiee Motlagh

**Assistant Professor of Occupational Hygiene**

### Contact Information

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### Education and Training

2013-2018	Ph.D	Hamadan University of Medical Sciences	Occupational Health
2010-2013	M.Sc	Hamadan University of Medical Sciences	Occupational Health
2008-2010	B.Sc	Hamadan University of Medical Sciences	Occupational Health
2006-2008	Associated degree	Shahid Beheshti University of Medical Sciences	Safety Engineering

### Research Interests

- Noise in the workplace
- Desirable lighting in the workplace
- Heat stress in the workplace
- Environmental Ergonomics

### Academic Teaching

- Assessment and design of lighting in the workplace for the B.Sc and M.Sc student.
- Assessment of thermal stress in the workplace for the B.Sc and M.Sc student.
- Design of heat, cold and humidity control systems for the M.Sc student.
- Assessment and control of noise and vibration in the workplace for B.Sc student.
- Human Factors Engineering for B.Sc student.

## Books

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1. Climate Control in the Workplace, (Persian), 2022
2. Safety and occupational health in exposure to laser radiation, (Persian), 2018.
3. Ergonomic checkpoints: practical and easy-to-implement solutions for improving safety, health and working conditions, 2nd ed, 2010 (Persian), 2014.

## Theses Supervisor

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- Experimental investigation of the effect of simultaneous exposure to noise and physical activity on fatigue, psychomotor performance and physiological parameters of employees in hot and humid working environments of industries in the south of the Iran. 2023- Mohammadjavad Soleymankhani, Ms.C Thesis
- Experimental study thermal comfort of medical gowns and its effects on physiological, neurophysiological and cognitive responses of healthcare workers in the Covid 19 pandemic. 2022, Sepideh Zand, Ms.C Thesis
- Optimization of the artificial lighting system based on objective and subjective assessment of visual comfort of employees in Farshchian Heart Hospital in Hamadan. 2021, Maryam Karimi, Ms.C Thesis

## Theses Adviser

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- Experimental study of the performance of cooling vests using PCM Nanofibers and PCM packs for reducing thermal stress in warm workplaces. 2022, Ali davoudi Zade, Ms.C Thesis
- Experimental study of noise emission patterns based on room acoustic characteristics in typical industrial workshops. 2021, Seyde elah Hossieni, Ms.C Thesis
- The empirical study of the combined effects of thermal condition and vibration on physiological and cognitive responses under driving operation. 2021, Zahra Sadat Aghamiri, Ms.C Thesis

## Papers

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1. Sepideh Zand, Masoud Shafiee Motlagh\*, Rostam Golmohammadi, Mohsen Aliabadi, Leili Tapak, Mohammadd Babamiri. Effects of wearing medical gowns at different temperatures on the physiological responses of female healthcare workers during the COVID-19 Pandemic. Work, vol. Pre-press, no. Pre-press, pp. 1-12, 2024
2. Rostam Golmohammadi, Masoud Shafiee Motlagh\*, Mohsen Aliabadi, Javad Faradmal, Akram Ranjbar. Staffs' physiological responses to irrelevant background speech and mental workload in open-plan bank office workspaces. Work, vol. 76, no. 2, pp. 623-636, 2023

3. Mohsen Aliabadi, Masoud Shafiee Motlagh\*, Rostam Golmohammadi, Rashid Heidarimoghadam, Maryam Farhadian. Analysis of body heat tolerance of workers in a simulated warm environment based on linear mixed model. PLoS ONE 17(12): 2022
4. Mohsen Aliabadi, Ramin Rahmani, Ebrahim Darvishi, Maryam Farhadian, Masoud Shafiee Motlagh, Neda Mahdavi. An investigation of musculoskeletal discomforts among mining truck drivers with respect to human vibration and awkward body posture using random forest algorithm. Human Factors and Ergonomics in Manufacturing & Service Industries. 2022
5. Rostam Golmohammadi, Ebrahim Darvishi, Masoud Shafiee Motlagh, Javad Faradmal, Mohsen Aliabadi, Matilde A.Rodrigues. Prediction of occupational exposure limits for noise-induced non-auditory effects, Applied Ergonomics, 99, 2022, 103641, <https://doi.org/10.1016/j.apergo.2021.103641>.
6. Mohsen Aliabadi, Zahra Sadat Aghamiri, Maryam Farhadian, Masoud Shafiee Motlagh, Morteza Hamidi Nahrani . The Influence of Face Masks on Verbal Communication in Persian in the Presence of Background Noise in Healthcare Staff. Acoustics Australia, 50, 127–137 (2022). <https://doi.org/10.1007/s40857-021-00260-3>
7. Zahra Sadat Aghamiri, Mohsen Aliabadi, Maryam Farhadian, Rostam Golmohammadi, Masoud Shafiee Motlagh. The simultaneous exposure to heat and whole-body vibration on some motor skill functions of city taxi drivers. La Medicina del Lavoro. 2022; 113(5): e2022045.
8. Askaripoor T, Aghaei H, Rahmani A, Abolhasannejad V, Shafiee motlagh M, Abbasi A M, et al . Academic Burnout and its Relationship with Employment Hope among Health Sciences Students. JMED 2022; 15 (45) :8-18
9. Rostam Golmohammadi, Ebrahim Darvishi, Masoud Shafiee Motlagh, Javad Faradmal. Role of individual and personality traits in occupational noise-induced psychological effects, Applied Acoustics, 2021, 173, 107699.
10. Masoud Shafiee Motlagh, Rostam Golmohammadi\*, Mohsen Aliabadi, Javad Faradmal, Akram Ranjbar. Empirical Study of Room Acoustic Conditions and Neurophysiologic Strain in Staff Working in Special Open-Plan Bank Offices. Acoustics Australia, 2018, 46(3): 329-338.
11. Masoud Shafiee Motlagh, Rostam Golmohammadi\*, Mohsen Aliabadi, Javad Faradmal, Akram Ranjbar. Acoustic Problems and Their Solutions in a Typical Open-Plan Bank Office. Ergonomics in Design, 2019, 27(1): 1-9.
12. Masoud Shafiee Motlagh, Majid Motamedzade, Neda Mahdavi\*, Abdolmajid Garkaz. The Relation between Shift Lengths and Occupational Fatigue Dimensions in Filling Station. International Journal of Occupational Hygiene, 2015, 7(3): 146-152.
13. Davoodizadeh A, Aliabadi M, Habibi Mohraz M, Farhadian M, Shafiee Motlagh M. Performance of Vests based on Nanofibers and Packages of Phase Change Materials to

- Reduce Thermal Stress in a Hot Work Environment: An Experimental Study. Iran J Ergon 2023; 11 (2) :90-100
14. Hosseini S E, Aliabadi M, Golmohammadi R, Shafiee Motlagh M. Experimental Study of the Sound Emission Pattern Based on Acoustic Characteristics in Typical Industrial Manufactories in Hamadan, Iran. j.oh 2023; 10 (1) : 1
  15. Maryam Karimi , Masoud Shafiee Motlagh\* , Rostam Golmohammadi , Mohsen Aliabadi, Maryam Farhadian. Design and development of lighting assessment questionnaire for the working environment of the hospitals. j.health 2023; 13 (4) :590-603
  16. Mostafa Rahmiani Iranshahi, Masoud Shafiee Motlagh, Elahe Dortaj, Maryam Farhadian. Design and development of a visual comfort questionnaire (VCQ) for employees in the workplace. Iran J Ergon. 2022; 9 (4) :162-174
  17. Mohsen Aliabadi, Ramin Rahmani, Ebrahim Darvishi, Maryam Farhadian, Masoud Shafiee Motlagh, Neda Mahdavi. Experimental study of exposure to human vibration and its relationship with physical performance in mining equipment operators. Iran J Ergon. 2022; 9 (3) :39-54
  18. Taleb Askaripoor, Ayat Rahmani, Hamed Aghaei, Vahide Abolhasannejad, Ali Mohammad Abbasi, Masoud Shafiee motlagh, et al . Health sciences students' perception of the educational environment and its role in predicting academic buoyancy. Educ Strategy Med Sci. 2020; 13 (4) :360-370. URL: <http://edcbmj.ir/article-1-2420-fa.html>
  19. Neda Mahdavi, Masoud Shafiee Motlagh, Ebrahim Darvishi. Implementation of Ergonomic Interventions using Participatory Program Method of PERforM. Iran J Ergon. 2019; 7 (2):19-29. URL: <http://journal.iehfs.ir/article-1-530-fa.html>
  20. Rostam Golmohammadi, Mohsen Aliabadi\* , Masoud Shafiee Motlagh, Rahim Goodarzi. Efficiency Assessment of Acoustic Cabin for Providing Acoustic Comfort in Turbine Unit of a Thermal Power Plant. Journal of Occupational Hygiene Engineering. 2019; 6 (1) :1-7
  21. Masoud Shafiee Motlagh, Hamed Aghaei, Mohammad Javad Assari\* , Morteza Soltani Mohammadi Samar. Design and providing of a software package based on Control Banding method for risk assessment of occupational exposure to nanomaterials. Iran Occupational Health 14 (1), 71-80.
  22. Majid Motamedzade, Masoud Shafiee Motlagh, Vahideh Abolhasannejad, Taleb Askaripoor, Alimohammad Abbasi, Hamed Aghaei\* . Investigate the reason why taxi drivers don't use the lighting automobile system overnight in urban streets of a western metropolis of Iran. Iran Occupational Health 14 (5), 53-61.
  23. Masoud Shafiee Motlagh, Mohsen Aliabadi\* , Reza Shahidi, Amin Kahani. Assessment and the feasibility of improving the artificial lighting system in technical services workshop located in the Fourth South Pars Gas Refinery. Journal of Occupational Hygiene Engineering 2 (3), 1-9
  24. Roya Bayat, Mohsen Aliabadi\* , Rostam Golmohamadi, Masoud Shafiee Motlagh. Assessment of exposure to hand-arm vibration and its related health effects in workers

- employed in stone cutting workshops of Hamadan city. *Journal of Occupational Hygiene Engineering* 3 (1), 25-32.
25. Rostam Golmohamadi, Masoud Shafiee Motlagh\*, Mahdi Jamshidi Rastani, Nasim Salimi, Zahra Valizadeh. Assessment of interior and area artificial lighting in hospitals of Hamadan city. *Journal of Occupational Hygiene Engineering* 1 (1), 47-56.
  26. Rostam Golmohamadi, Iraj Mohammadfam, Masoud Shafiee Motlagh\*, Ebrahim Darvishi, Akram Mortezaie, Faeze Azizian. Planning an Automatic Fire Detection, Alarm, and Extinguishing System for Research Laboratories. *Journal of Occupational Hygiene Engineering* 1 (1), 57-65.
  27. Alireza.Soltanian,Majid.Motamedzade, Masoud.Shafiee motlagh, Abdolmajid.Garkaz, Neda.Mahdavi\*. Persian version of Swedish occupational fatigue inventory(P-SOFI): validity and reliability. *Iran Occupational Health*, 2014, 11(1): 34-43.
  28. Mohsen Aliabadi, Neda Mahdavi, Maryam Farhadian, Masoud Shafie Motlagh\*. Evaluation of noise pollution and acoustic comfort in the classrooms of Hamadan University of medical sciences in 2012. *Iranian Journal of Ergonomics*. 2013; 1 (2) :19-27
  29. Rostam Golmohamadi, Iraj Mohammadfam, Masoud Shafiee Motlagh\*, Javad Faradmal. Developing the Frank and Morgan technique for industrial fire risk assessment. *Journal of Health and Safety At Work*.2013, 3 (3), 1-10.
  30. Majid Motamedzadeh, Masoud Shafiee Motlagh, Ebrahim Darvishi\*. Ergonomics intervention in manual handling of oxygen. *Health and Safety at Work*. 2013; 3 (1) :19-28
  31. Majid Motamedzadeh, Masoud Shafiee-Motlagh, Ebrahim Darvishi\*. Ergonomics intervention in unit blast furnace of a typical steel company. *Archives of Rehabilitation*. 2013, 14 (3): 80-87.
  32. Majid Motamedzade, Ali Dormohammadi\*, Hossien Amjad Sardrodi, Esmaeil Zarei, Reza Dormohammadi, Masoud Shafiee Motlagh. The Role of Ergonomic Design and Application of Niosh Method in Improving the Safety of Load Lifting Tasks. *Arak Medical University Journal*. 2013 16 (6): 91-100.
  33. Iraj Mohammadfam, Alireza Zaman Parvar, Masoud Shafiee Motlagh\*. Safety Assessment in Hamadan's Bazaar and Suggesting Control Strategies with Emphasis on Fire Safety. *Journal of Health and Development*. 2013, 2 (2): 94-105.
  34. Mahdi Jalali, Somaieh Jalali, Masoud Shafiee Motlagh, Hossein Mardi, Seied Amir Reza Negahban, Vahdat Faraji Tomarkandi, Mohamad Jahangiri\*, Health risk assessment of occupational exposure to BTEX compounds in petrol refueling stations in Mashhad. *Journal of Neyshabur University of Medical Sciences*, 2014, 1(1), 19-27.
  35. Masoud Shafiee Motlagh. Frank and Morgan technique for industrial fire risk assessment. *Journal of fire*. 2013.

## Conferences

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1. 12th National Congress of Occupational Health and Safety  
Title: Design and implementation of optimal lighting system for administrative offices  
23-25 May 2023, Hamadan. Presentation
2. 12th National Congress of Occupational Health and Safety  
Title: Evaluation of the thermal effects of medical gowns used by the healthcare staff on their psychomotor performance during the covid-19 pandemic.  
23-25 May 2023, Hamadan. Presentation
3. 12th National Congress of Occupational Health and Safety  
Title: The effects of combined exposure to whole-body vibration and heat on the driver's physiological and cognitive performance and environmental comfort in the simulated condition.  
23-25 May 2023, Hamadan. Presentation
4. The 12th International Conferences on the Acoustics and Vibration  
Title: Design and implementation of acoustic materials to provide acoustic comfort in administrative offices  
14, 15 December 2022, Tehran. Presentation
5. Contemporary Ergonomics & Human Factors 2022  
Title: Development and Validation of a Lighting Assessment Questionnaire for Hospitals  
11-26 April 2022, United Kingdom. Presentation
6. The 11th International Conferences on the Acoustics and Vibration  
Title: Design and implementation of structural-based noise engineering control in a steel manufacturing industry.  
8, 9 December 2021, Tehran. Presentation
7. The 11th International Conferences on the Acoustics and Vibration  
Title: Noise exposure and relationship with cognitive performance in textile workers  
8, 9 December 2021, Tehran. Presentation
8. 10th National Congress of Occupational Health and Safety  
Title: Comparison of measured and calculated reverberation time in banks  
2-3 May 2017, Gilan University of Medical Sciences. Presentation
9. 8th National Congress of Occupational Health and Safety  
Title: Safety Improvement Intervention Plan at a Chemical Industrial Based on Frank & Morgan Risk Assessment Method  
24-26 April 2013, Mazandaran University of Medical Sciences. Presentation
10. Biennial Iranian Conference on Ergonomics  
Title: Assessment and the feasibility of improving the artificial lighting system in technical services workshop located in the Fourth South Pars Gas Refinery  
14-16 October 2014, Hamadan University of Medical Sciences. Presentation

11. About 15 poster

## **Grants and Contracts**

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About 40 industrial projects