



Shahram Vosoughi

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Summary

Shahram is an associate professor in the department of Occupational Health Engineering, Iran university of Medical Science, Tehran, Iran.

He directs the human factors, ergonomics teaching, and research programs. Prior to joining Iran University of medical science, he ran the graduate program in occupational safety and ergonomics at Shahid Beheshti University of medical science, Tehran, Iran. Since 2014 till now, he has been an honorary research fellow at the Occupational Health Research Center, Iran University of medical science and he has been a researcher professor in the departments of occupational health at Tarbiat Modares university. His researches and teaching activities have focused on issues of design and workplace ergonomics as these affect the health, comfort and productivity of workers. His research themes include workstation design, transportation safety, ergonomic risk factors for workers and drivers, the performance and health effects of postural strain, and the health and comfort impacts of various environmental stressors, such as the effects of indoor air quality effects on sick building syndrome complaints among office workers, and so on. Shahram builds relationships with employers, workers, and unions to ensure successful outcomes; whether it be risk reduction, workstation and work flow design, ergonomic program development, or return to work planning.

Skills

- Group leadership
- Student evaluation
- Lesson plan creation
- Documentation
- Academic publication
- Communication expertise
- Student research advisement
- Editing and proofreading
- Critical thinking skills
- Technology-based learning tools
- Class engagement
- Composition lessons
- Hands-on learning
- Thesis guidance
- Interpreting literature
- Classroom lectures
- Professional development

Experience

Industrial Experience:

- Director of Industrial Engineering and Project Control Department in Kaveh Paper Industries Producing CO(1995-1996)
- Safety and Occupational Health Consultant at Safety Department in Iran Khodro CO-Vehicle Manufacture. (2001-continue);
- Safety and Occupational Health Consultant in Iran Air Line -HOMA. (2002- 2006).
- Industrial Ergonomic Consultant at SAIPA CO-Vehicle Manufacture. (2011-2013).

Education and Training

Education:

- PhD in Occupation Health Engineering (2012), Tarbiat Modares University, Tehran, Iran.
- M.Sc. in Occupation Health and Safety (1992), Tehran University of Medical Sciences, Tehran, Iran.
- B.Sc. in Occupation Health and Safety (1989), Faculty of Industrial Safety & Health, Tehran, Iran.
- Programming and Control Project Course in Industrial Management Organization (1995).

Academic experience:

- Since 1992 as the Member of the Scientific Board of Occupational Health and Safety has been teaching the following courses:

- Human factor engineering and Ergonomics (Shahid Beheshti University of Medical Science 1992 – 2015) – Tarbiat modares university (2014 – 2018) - Iran university of medical science (2012-2018) Tehran, Iran);
- Hazardous Physical Factors Recognition – Industrial Sound and Vibration control (Shahid Beheshti University of Medical Science– Tehran, Iran)
- Safety Management & Ergonomics (Faculty of Occupational Health and Safety-Tehran, Iran)
- Safety Management – Ergonomics – Hazardous Physical Factors Recognition (Iran Industries Technical School – Related To Ministry of Industries).
- Director of academic affairs at faculty of occupational health and safety (1995 -1996);
- Deputy Dean of research and education at the faculty of occupational health and safety (2005 - 2006).
- Dean of school of Health, Safety and Environment , Shahid Beheshti University of Medical Science 2014 – 2015)

Interested research subjects (research interests):

- Ergonomics (Macro Ergonomics – Micro Ergonomics)
- Work Physiology
- Noise Control in Industries - Safety Management – Risk Assessment

Scientific Success or awards:

- First Place Graduation of PhD in Tarbiat modares University (2012);
- First Place Graduation of M.Sc in Tehran University of Medical Sciences (1992);
- First Place Graduation of B.Sc. in Faculty of Occupational Health and Safety (1989)
- The Superior Researcher in Ministry of Labor and Social Affairs (2003)
- Awarded for the distinguished professor of the Health, Safety and Environment, Shahid Behashti University of Medical Sciences (2008).

Publications:

1. Alimohammadi I, **Vosoughi S**, Abolghasemi J, Rafieepour A, Tabatabaei SH, Delshadi B. Comparison of the Risk of Musculoskeletal Disorders among Normal and Students with Hearing Abnormalities in Ilam City. Iranian Journal of Ergonomics. 2022 Sep 10;10(2):120-12.
2. Rahimi J, Abedi K, Ebrahimi H, Yarahmadi R, Alimohammadi I, **Vosoughi S**, Tabatabaei SH. Health Risk Assessment of Asphalt Workers' Exposure to Benzo- α -pyrene. Journal of Chemical Health Risks. 2022 Sep 1;12(3):537-43.
3. Rostamzadeh S, Abouhossein A, Chalak MH, **Vosoughi S**, Norouzi R. An integrated DEMATEL–ANP approach for identification and prioritization of factors affecting fall from height accidents in the construction industry. International Journal of Occupational Safety and Ergonomics. 2022 Aug 13:1-0.

4. Abri M, **Vosoughi S**, Jamileh A, Hajar T, Hossein E. The Study of Relationship between Socioeconomic Status and Safety Behaviors in Workers of Qom Subway Construction Project. *Journal of Occupational Hygiene Engineering*. 2022 Jul 10:15-21.
5. Alimohammadi I, Nouraei M, **Vosoughi S**, Esrafil A, Abolghasemi J. Experimental study transmission loss measurement of double-glazed glasses filled with hydrogel. *Journal of Occupational Hygiene Engineering*. 2022 Jul 10:9-14.
6. Abri M, **Vosoughi S**, Abolghasemi J, Rahimi J, Ebrahimi H. The effect of job security on safety behavior with the moderating role of salary: a structural equation model. *International Journal of Occupational Safety and Ergonomics*. 2022 Jul 3;28(3):1732-7.
7. **Vosoughi S**, Alimohammadi I, Hosseini AF, Noushabadi ZS. Case study: Knowledge, attitude, and practice (KAP) regarding hearing protection: A case study among offset printing industry workers in Tehran province. *Noise Control Engineering Journal*. 2022 May 1;70(3):270-8.
8. **Vosoughi S**, Alimohammadi I, Hosseini AF, Sedghi Noushabadi Z. Relationship between risk perception toward hearing conservation and using hearing protection devices among offset printing workers in Tehran province, Iran. *Archives of Environmental & Occupational Health*. 2022 Apr 21;77(4):338-44.
9. Mohammadi IA, Nouraei M, **Vosoughi S**, Esrafil A, Dizgi JA. Experimental Investigation of Sound Transmission Loss in Double-Glazing Filled with Hydrogel. *J Occup Hyg Eng*, 2022; 9(2): 88-94.
10. **Vosoughi S**, Davari M, Ebrahimi H, Abolghasemi J, Talebi M. The Relationship between Emotional Intelligence and Job Stress with Safety Behavior among Work Permit Issuers in One of the Oil Industries. *J Occup Hyg Eng (1002357)*, 29-36.
11. **Vosoughi S**, Chalak MH, Yarahmadi R, Abolghasemi J, Alimohammadi I, Anbardan AN, Kanrash FA. Prioritizacija i procjena ključa sigurnosti pokazatelja uspjeha u automobilskoj industriji. *Sigurnost: časopis za sigurnost u radnoj i životnoj okolini*. 2021 Dec 28;63(4):347-61.
12. Rostamzadeh S, Saremi M, Abouhossein A, **Vosoughi S**, Molenbroek JF. Normative data for handgrip strength in Iranian healthy children and adolescents aged 7–18 years: Comparison with international norms. *Italian Journal of Pediatrics*. 2021 Dec;47(1):1-9.
13. Rostamzadeh S, Saremi M, **Vosoughi S**, Bradtmiller B, Janani L, Farshad AA, Taheri F. Analysis of hand-forearm anthropometric components in assessing handgrip and pinch strengths of school-aged children and adolescents: a partial least squares (PLS) approach. *BMC pediatrics*. 2021 Dec;21:1-2.
14. **Vosoughi S**, Chalak MH, Yarahmadi R, Abolghasemi J, Alimohammadi I, Anbardan AN, Kanrash FA. Prioritization and assessment of safety key performance indicators in an automotive industry. *Sigurnost*. 2021 Oct 1;63(4):347-61.
15. Beheshti MH, Jafarizaveh M, Samaei SE, **Vosoughi S**, Jebeli MB, Zia G. Study of Biomechanical Risk Factors for Musculoskeletal Disorders in the Bakery Business. *Archives of occupational Health*. 2021; 5(2):1000-1011
16. Rostamzadeh H, Gholizadeh T, Rostamzadeh S, **Vosoughi S**, Farshad AA. Role of ejector expander in optimal inherently safety design of cascade NH₃/Propane/CO₂ vapor compression refrigeration systems. *Process Safety and Environmental Protection*. 2021 Feb 1;146:745-62.
17. Chalak MH, **Vosoughi S**, Eskafi F, Jafari A, Alimohammadi I, Kanrash FA. Environmental Key Performance Indicators for Sustainable Evaluation in Automotive Industry: A Focus

Group Study. Journal of Environmental Assessment Policy and Management. 2020 Dec 4;22(03n04):2250007.

18. Alimohammadi I, Kanrash FA, **Vosoughi S**, Shekaftik SO, Rahmani K, Chalak MH, Anbari M. Relationship between noise annoyance and high blood pressure in workers exposed to chronic noise among the workers of an automotive industry. *Indian Journal of Occupational and Environmental Medicine*. 2020 Sep;24(3):153.
19. **Vosoughi S**, Sarvari K, Chalak MH, Khandan M, Rostamzadeh S. Studying safety climate among locomotive drivers of Tehran subway transportation lines in 2013. *Journal of Health and Safety at Work*. 2020 Aug 10;10(3):263-72.
20. Alimohammadi I, Kanrash FA, **Vosoughi S**, Abolghasemi J, Chalak MH, Rahmani K. Study of the Relationship Between Hearing Loss and Cognitive Performance at Chronic Exposure to Noise. *Iranian Red Crescent Medical Journal*. 2020 Jul 27;22(7).
21. Rashidi M, **Vosoughi S**, Poornajaf A, Faraji M, Poornajaf M, Kazemi M, Kazemi K. Investigative of the Relationship between job Stress and General Health among staffs of Ilam University of Medical Sciences in 2015. *Iran Occupational Health*. 2020 May 10;17(1):305-20.
22. Jafari H, **Vosoughi S**, Abolghasemi J, Ebrahimi H. Development and Validation Checklist for the Health, Safety and Environment Management System Auditing in the Surface Mines. *Iran Occupational Health*. 2020 May 10;17(1):1098-108.
23. Nadri F, Zare S, **Vosoughi S**, Nadri H. The effect of noise exposure on the level of sex hormones in male rats addicted to opium. *Iran Occupational Health*. 2020 May 10;17(1):712-22.
24. **Vosoughi S**, Chalak MH, Rostamzadeh S, Jahanpanah M, Ebrahimi H. Analyzing the causes of falling from height accidents in construction projects with analytical hierarchy process (AHP). *Journal of Health and Safety at Work*. 2020 May 10;10(2):96-109.
25. Heidaryan A, Alimohamadi I, **Vosoughi S**, Abolghasemi J. Investigating the Effect of Emotional Intelligence Components on Driving Errors. *Archives of Occupational Health*. 2020 Apr 10;4(2):570-6.
26. **Vosoughi S**, Chalak MH, Yarahmadi R, Abolghasemi J, Alimohammadi I, Kanrash FA, Pourtalari M. Identification, selection and prioritization of key performance indicators for the improvement of occupational health (case study: An automotive company). *Journal of UOEH*. 2020 Mar 1;42(1):35-49.
27. **Vosoughi S**, Rostamzadeh S, Chalak MH, Farshad AA, Jahanpanah M. A novel approach based on DEMATEL method for causal modeling an effective factors in falling from height accidents in construction projects. *Iranian journal of health, safety and environment*. 2020 Feb 29;6(4):1355-65.
28. Alimohammadi I, Kanrash FA, Abolghasemi J, **Vosoughi S**, CHALAK MH. Relationship between noise annoyance and cognitive performance in automotive workers exposed to chronic noise. *Journal of UOEH*. 2019 Dec 1;41(4):375-85.
29. Nadri H, Rohani B, Teimori G, **Vosoughi S**, Fasih-Ramandi F. Thoracic kyphosis angle in relation to low back pain among dentists in iran. *Open Access Macedonian Journal of Medical Sciences*. 2019 Nov 11;7(21):3704.
30. Moghaddam SM, Alimohammadi I, **Vosoughi S**, Tabatabaei SH, Ghasemi R, Ahmadian M, Ebrahimi H. Study of Sleep Quality and its Relation with Educational Status of Iran University of Medical Sciences Students. *Archives of Occupational Health*. 2019 Oct 12.

31. Khandan M, Koohpaei A, Farshad AA, Hamta A, Danesh F, **Vosoughi S**. Developing a questionnaire to assess safety climate at universities of medical sciences. *Archives of Hygiene Sciences*. 2019 Aug 10;8(2):109-18.
32. **Vosoughi S**, Chalak MH, Rostamzadeh S, Taheri F, Farshad AA, Motallebi Ghayen M. A cause and effect decision making model of factors influencing falling from height accidents in construction projects using Fuzzy-DEMATEL technique. *Iran Occupational Health*. 2019 Jul 10;16(2):79-93.
33. **Vosoughi S**, Alimohammadi I, Hosseini AF, Sedghi Z. Designing a questionnaire to investigate the knowledge, attitude, and practice (KAP) of printing industry workers regarding hearing protection and determining its validity and reliability. *Journal of Occupational Hygiene Engineering Volume*. 2019 May 10;6(1):43-51.
34. Dastpaak H, Alimohammadi I, jalal Sameni S, Abolghasemi J, **Vosoughi S**. Effects of earplug hearing protectors on the intelligibility of Persian words in noisy environments. *Applied Acoustics*. 2019 May 1;148:19-22.
35. Moradi G, Omidi L, **Vosoughi S**, Ebrahimi H, Alizadeh A, Alimohammadi I. Effects of noise on selective attention: The role of introversion and extraversion. *Applied Acoustics*. 2019 Mar 1;146:213-7.
36. Hatami A, **Vosoughi S**, Hosseini AF, Ebrahimi H. Effect of Co-Driver on Job Content and Depression of Truck Drivers. *Safety and Health at Work*. 2019 Mar 1;10(1):75-9.
37. **Vosoughi S**, Rostamzadeh S, Farshad AA, Taheri F, Vahabzadeh-Monshi H. Whole-Body Vibration Exposure Study in Intercity Mini-Bus Drivers-The Risk of Musculoskeletal Disorders. *Iranian Journal of Health, Safety and Environment*. 2019 Jan 26;6(1):1198-205.
38. Amirbahmani A, **Vosoughi S**, Alibabaei A. Assessment of the Relationship between worker's safety climate and safety performance in construction projects. *Iran Occupational Health*. 2018 Aug 15;15(3):22-32.
39. Rostamzadeh H, Ghaebi H, **Vosoughi S**, Jannatkah J. Thermodynamic and thermoeconomic analysis and optimization of a novel dual-loop power/refrigeration cycle. *Applied Thermal Engineering*. 2018 Jun 25;138:1-7.
40. Soleimani R, **Vosoughi S**, Hejazi TH, Mahdloo F. Study of relationship between Safety attitude and knowledge and The work ability index (A case study in one of the big hospitals in Tehran). *Iran Occupational Health*. 2018 Jun 15;15(2):133-42.
41. Mofidi A, **Vosoughi S**, Mortazavi SB, Ahmadi O. Relationship between Personality Characteristics and Accident Proneness of Iranian Bus Drivers. *Iran Occupational Health*. 2018 Mar 15;14(6):88-98.
42. Khandan, M., **Vosoughi, S.**, Poursadeghiyan, M., Azizi, F., Ahounbar, E., & Koohpaei, A. (2018). Ergonomic Assessment of Posture Risk Factors Among Iranian Workers: An Alternative to Conventional Methods. *Iranian Rehabilitation Journal*, 16(1), 11-16.
43. Mortazavi, S. B., & **Vosoughi, S.** (2017). Effect of Garlic intake on blood glucose and cortisol levels and body weight changes in noise-exposed male rats. *Iran Occupational Health*, 14(3), 130-140.
44. Ahmadi Marzaleh, M., **Vosoughi, S.**, Kavousi, A., & Jameh Bozorg, H. (2017). Investigation of the Relation between Level of Awareness in Health, Safety and Environment Management System and its Effects on Employee Safety Climate in Kermanshah oil refinery in 2015. *Iran Occupational Health*, 14(3), 117-129.

45. Mortazavi, S. B., & **Vosoughi, S.** (2017). Effect of Garlic intake on blood glucose and cortisol levels and body weight changes in noise-exposed male rats. *Iran Occupational Health, 14*(3), 130-140.
46. Koohpaei, A., Khandan, M., **Vosoughi, S.**, Khammar, A., Mobinizade, V., Farrokhi, M., & Poursadeghiyan, M. (2017). Industrial workers' postures analysis by a new method named "loading on the upper body assessment" in Iran. *Annals of Tropical Medicine and Public Health, 10*(4), 973.
47. Taban, E., Mortazavi, S. B., **Vosoughi, S.**, Khavanin, A., & Asilian, H. (2017). Noise Exposure Effects on Blood Glucose, Cortisol and Weight Changes in the Male Mice. *Health Scope, 6*(2).
48. Mofidi, A., **Vosoughi, S.**, Mortazavi, S. B., & Ahmadi, O. (2017). Relationship between Personality Characteristics and Accident Proneness of Iranian Bus Drivers. *Iran Occupational Health, 14*(6), 104-95.
49. Marzaleh, M. A., **Vosoughi, S.**, Kavousi, A., & Bozorg, H. J. (2017). Investigation of Relationship between Level of Awareness around Health, Safety and Environment Management System and Its Effects on Safety Climate and Risk Perception by Employees in an Iran Oil Refinery, 2015. *Iranian Journal of Health, Safety and Environment, 4*(2), 738-745.
50. Koohpaei, A., **Vosoughi, S.**, Mobinizadeh, V., Hasseli, F., & Mohammadbeigi, A. (2017). Musculoskeletal disorders risk factors assessment by RULA and LUBA and comparing results in a printing and publication company.
51. Khandan, M., **Vosoughi, S.**, Azrah, K., Poursadeghiyan, M., & Khammar, A. (2017). Decision making models and human factors: TOPSIS and ergonomic behaviors (TOPSIS-EB). *Management Science Letters, 7*(2), 111-118.
52. Abbasi, S., Mahabadi, H. A., & Vosoughi, S. (2017). Work Ability of the Personnel of a Petrochemical Company and the Relationship Between Age and Physical Activities. *Health Scope, 6*(1).
53. Taban, E., Mortazavi, S. B., **Vosoughi, S.**, & Khavanin, A. (2016). Investigating the effects of noise exposure on intensification of diabetes mellitus, serum glucose, cortisol level and body weight of the male mice. *Journal of Paramedical Sciences, 7*(4), 11-20.
54. Khandan, M., Koohpaei, A., **Vosoughi, S.**, Mohammadbeigi, A., & Mirshekari, F. (2016). Validity Evaluation of the Assessment Method for Postural Loading on the Upper Body in Printing Industry. *Majallah-i Dānishgāh-i Ulūm-i Pizishkī-i Qum, 10*(5), 93-100.
55. Ahmadi Marzaleh, M., **Vosoughi, S.**, Kavousi, A., & Jameh Bozorg, H. (2016). Effect of awareness about health, safety and environment management system on safety climate and risk perception in oil refinery employees. *International Archives of Health Sciences, 3*.
56. **Vosoughi, S.**, Dana, T., & Serajzadeh, N. (2015). Providing management system audit HSE-MS pattern for printing using ANP and DEMATEL model with emphasis on assessment methods of D & S and Misha and OGP. *Iran Occupational Health, 12*(3), 1-14.
57. Khandan, M., & **Vosoughi, S.** (2015). Analysis of Workers' Safety Attitude in an Iranian Process Industry. *Archives of Hygiene Sciences Volume, 4*(4).
58. Nejhad, N. Z., Khavanin, A., & Vosoughi, S. (2015). The Effect of Simultaneous Postural Stress and Noise Exposure on Strain Index Number Among the Machinery Women Aged 25–30 Years old in Gas Supply Parts Manufactories. *Health Scope, 4*(2).

59. **Vosoughi, S.**, Khavanin, A., Shahverdi, A. H., Esmaeili, V., & Ghasemkhan, A. H. (2013). Investigation of Simultaneous Exposure to Noise and Formaldehyde Vapor on Mouse Reproductive Function. *International Journal of Fertility & Sterility*, 7, 71.
60. **Vosoughi, S.**, Mahabadi, H. A., Khavanin, A., Salehnia, M., Shahverdi, A., Esmaeili, V., & Soleimanian, A. (2013). Effects of simultaneous Formaldehyde vapor and noise exposure on pituitary-gonadal axis in adult male mice. *Journal of Kermanshah University of Medical Sciences (J Kermanshah Univ Med Sci)*, 16(8), 591-599.
61. **Vosoughi, S.**, Khavanin, A., Salehnia, M., AILIAN, H., & Esmaeili, V. (2013). Toxic effects of formaldehyde vapors on testicular tissue and sperm parameters in adult mice.
62. Khandan, M., Maghsoudipour, M., **Vosoughi, S.**, & Kavousi, A. (2013). Safety climate and prediction of ergonomic behavior. *International journal of occupational safety and ergonomics*, 19(4), 523-530.
63. **Vosoughi, S.**, Khavanin, A., Salehnia, M., Mahabadi, H. A., Shahverdi, A., & Esmaeili, V. (2013). Adverse effects of formaldehyde vapor on mouse sperm parameters and testicular tissue. *International journal of fertility & sterility*, 6(4), 250.
64. Dehghani, A., Ranjbarian, M., Khavanin, A., Rezazadeh, A. M., & **Vosoughi, S.** (2013). Exposure to noise pollution and its effect on oxidant and antioxidant parameters in blood and liver tissue of rat.
65. Khandan, M., Maghsoudipour, M., & **Vosoughi, S.** (2012). Ergonomic behavioral and workers' safety perception in Khuzestan Petrochemical Company. *Iranian Rehabilitation Journal*, 10, 26-30.
66. Oostakhan, M., **Vosoughi, S.**, & Khandan, M. (2012). Ergonomics issues in the construction safety: a case study in Iran. *Iranian Rehabilitation Journal*, 10, 47-51.
67. Khandan, M., **Vosoughi, S.**, & Maghsoudipour, M. (2012). Evaluation of safety climate factors-a macro-ergonomics approach: a case study in Iran. *Iranian Rehabilitation Journal*, 10, 43-46.
68. Khandan, M., Maghsoudipour, M., & **Vosoughi, S.** (2012). The evaluation of importance of ergonomic behaviors in an Iranian petrochemical company by Entropy.
69. **Vosoughi, S.**, Khavanin, A., Salehnia, M., Asilian, M. H., Shahverdi, A., & Esmaeili, V. (2012). Influence of formaldehyde vapor on male reproductive function in mice.
70. **Vosoughi, S.**, Khavanin, A., Salehnia, M., Mahabadi, H. A., & Soleimanian, A. (2012). Effects of simultaneous exposure to formaldehyde vapor and noise on mouse testicular tissue and sperm parameters. *J Health Scope*, 1(3).
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72. **Vosoughi, S.**, & Oostakhan, M. (2011). An Empirical investigation of safety climate in emergency medical technicians in Iran. *International journal of occupational hygiene*, 3(2), 70-75.

Book & Booklet:

1. "Ergonomics in Health Care and Rehabilitation" – Valerie J. Berg Rice. Translated by S.Ganeh and Sh. Vosoughi. (2012).
2. "Ergonomics" booklet. Faculty of Industrial Safety and Health (1993).
3. "Application of Time Study in Ergonomics", Faculty of Industrial Safety and Health (1997).
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- 6- Ergonomics in health care and rehabilitation translated by: s. Ghaneh Ezzabadi and Sh. Vosoughi – FANAVARAN-PUB(2011)