

Curriculum Vitae

Personal Information

Dr. Mostafa Pouyakian

Associate professor in the Department of Occupational Health and Safety Engineering, SBMU

Affiliated with the Department of Ergonomics, SBMU



📍 School of Public Health and Safety, Shahid Beheshti University of Medical Sciences, Velenjak, Daneshjou Blvd. Tehran, Iran
Post code: 19835-35511

☎ +98 21 22 43 20 40(1) Ext:221

✉ pouyakian@sbmu.ac.ir

Research Interests and Activities

I'm interested to research in some fields of safety at work and ergonomics such as system safety, process safety, risk assessment, and cognitive ergonomics. I'm especially interested in the common fields of ergonomics and safety like human error and the role of humans in accidents. I have been working on the application of driving simulators in the improvement of traffic safety since 2008.

Educational background

- 2007-2012** **PhD** in Occupational Health Engineering, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran.
Title of thesis: Identification of risk perception pattern in young drivers (25 to 35 years old) while using a cell phone and recognition of speed adjustment pattern in dual-task condition
- 2001-2004** **MSc** in Occupational Health Engineering, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran.
Title of thesis: Safety analysis of a glucose production unit by ETBA method and give approaches to prevention of accidents
- 1999-2001** **BSc** in Occupational Health Engineering, school of public health, Tehran University of Medical Sciences, Tehran, Iran.

Employment/Professional Experience

- 2021-Present** **Associate Professor**, Department of Occupational Health and Safety Engineering, School of Public Health and Safety, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- 2013-2021** **Assistant Professor**, Department of Occupational Health and Safety Engineering, School of Public Health and Safety, Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- 2004-Present** **Lecturer** in over than 70 training courses on occupational health and safety topics such as basics of safety and health in workplaces, laboratory safety, personal protective equipment, safety data sheets, and office ergonomics.
- 2009-2013** **Guest lecturer**, Department of Occupational Health Engineering, School of Public Health, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- 2009-2015** **Guest lecturer**, Department of Ergonomics, University of Social Welfare and Rehabilitation, Tehran, Iran
- 2012** **Health and Safety Specialist** in Health, Safety and Environmental Management office of Tehran Municipality, Tehran, Iran.
- 2012** **An expert member of a consulting group in the project entitled:** Documentation of Environmental Risk Assessment (ERA), crisis management and Emergency Response Plan (ERP) of 56 inches sour gas pipeline from Asalouye to Aghajari, AZMA Co. Tehran, Iran.
- 2010** **An expert member of a consulting group in the project entitled:** Risk assessment of oil boosters of Ahvaz, Omidiye and Goreh in design phase, AZMA Co. Tehran, Iran.
- 2010** **An expert member of a consulting group in the project entitled:** Risk assessment of oil tanks of Darkhovein oil refinery in design phase, AZMA Co. Tehran, Iran.
- 2009** **Guest lecturer**, Department of Industrial engineering, Kar Higher Education Institute, Qazvin, Iran
- 2004-2007** **Lecturer**, Department of occupational health engineering, School of Public Health, Qom University of Medical Sciences, Qom, Iran.
- 2007** **Workshop lecturer** in the 16th International Conference on Safe Communities, Workshop title: Hazard identification and risk assessment in workplaces, Tehran, Iran.
- 2004** **Guest lecturer**, Department of Occupational Health Engineering, School of Public Health, Qazvin University of Medical Sciences, Qazvin, Iran

Administrative activities

- **Undersecretary for Evaluation & Monitoring in the Center for Development, Coordination, and Evaluation of Research and Technology**, Ministry of Health and Medical Education, Tehran, Iran. Aug. 2023-present
- **Scientific Chair of the 4th Iranian International Ergonomics Congress**, Feb. 2024; Tehran, Iran
- **Director of Medical Devices Incubator Center**, Shahid Beheshti University of Medical Sciences, March 2023-present

- **Research and Technology vice-chancellor in School of Public Health and Safety, SBMU, 2020-2021**
- **Director of undergraduate educational affairs office in School of Public Health and Safety, SBMU, 2016-2019**
- **Secretary of the Board of Iranian Ergonomics Society (IES) since 2013**
- **Executive Secretary of 3rd Biennial Iranian Conference of Ergonomics, Tehran, Iran, Oct. 2018**
- **Executive secretary of 1st Biennial Iranian Conference of Ergonomics, Hamadan, Iran, Oct. 2014**

Publications

Journal papers

1. *Zahra Mohammadi, Mohammad Javad Jafari, Ali Khavanin, Amir Salar Jafarpisheh, Ali Ameri, Mostafa **Pouyakian**; Dynamic EEG changes during exposure to noise at different levels of loudness and sharpness; Applied Acoustics; 2024*
2. *Zahra Mohammadi, Mohammad Javad Jafari, Ali Khavanin, Amir Salar Jafarpisheh, Ali Ameri, Mostafa **Pouyakian**; The Influence of Noise Exposure at Different Loudness Levels on EEG Index and Types of Attention; International Journal of Preventive Medicine, 2023*
3. *Mostafa **Pouyakian**, Mojtaba Zokaei, Mohsen Falahati, Ali Nahvi, Milad Abbasi; Persistent effects of mobile phone conversation while driving after disconnect: Physiological evidence and driving performance; Heliyon, 2023*
4. *Samira Zeydi, Mostafa **Pouyakian**, Korosh Kamali, Shirazeh Arghami; Traffic Safety Pyramid Based on Visual Navigation Distraction: A Naturalistic Study on App-Taxis; Transportation Research Record, 2023*
5. *Younes Mehrifar, Majid Abasi, Kazem Samimi, Saber Moradi Hanifi, Mostafa **Pouyakian**; Determination of Key Safety Performance Indicators Using Delphi Method: A Case Study on Electricity Distribution Company in Alborz Province; Journal of Health and Safety at Work; 2023*
6. *M **Pouyakian**, M Ashouri, S Eidani, RF Madvari, F Laal; A systematic review of consequence modeling studies of the process accidents in Iran from 2006 to 2022; Heliyon, 2023*
7. *Mohammad Amin Rashidi, Samad Rezaiean Khazaei, Kazem Samimi, Soheila Khodakarim, Ashkan Khatabakhsh, Mostafa **Pouyakian**; Application of Social Media in Chemical Safety Training: A Case Study of Training GHS Standards to Students and Laboratory Staff at a University; Journal of Chemical Education, 2023*
8. *Younes Mehrifar, Soleiman Ramezanifar, Sona Beyrami, Sara Talebolhagh, Ehsan Ramezanifar, Pardis Amiri, Mostafa **Pouyakian**; A Review of Safety Economics Studies and Cost of Occupational Accidents in Iran from 2000 to 2021; Journal of Health and Safety at Work, 2023*
9. *Mohammad Javad Jafari, Mostafa **Pouyakian**, Parvaneh Mozaffari, Fereydoon Laal, Heidar Mohamadi, Masoud Taheri Pour, Saber Moradi Hanifi; A new approach to chemicals warehouse risk analysis using computational fluid dynamics simulation and fuzzy Bayesian network; Heliyon, 2022*
10. *Naseri S, saremi M, Namdari M, **Pouyakian M.**; Usability of the integrated health system (SIB) among public health and midwifery users; Journal of Health Administration, 2022*

11. Mostafa **Pouyakian**; *Cybergonomics: Proposing and justification of a new name for the ergonomics of Industry 4.0 technologies*; *Frontiers in Public Health*, (2022), 4227
12. Mostafa **Pouyakian**, Fereydoon Laal, Mohammad Javad Jafari, Farshad Nourai & Sohag Kabir; *Fuzzy Bayesian estimation and consequence modeling of the domino effects of methanol storage tanks*; *INTERNATIONAL JOURNAL OF OCCUPATIONAL SAFETY AND ERGONOMICS (JOSE)*; (2022); VOL. 28, NO. 4, 2509–2519
13. Hiro Kaleh, Farough Mohammadian, Mostafa **Pouyakian**; *Developing a safety audit checklist for in-operation administrative buildings*; *Work* 70 (2021) 785–794
14. Hiro kaleh, Mostafa **Pouyakian**, Kourosh Etemad, Alireza Abouhossein; *Developing a safety rating algorithm for office buildings using Fuzzy Analytical Hierarchy Process (FAHP)*; *Iran Occupational Health*; 2021, 18 (1), 313-329
15. N. Saffarinia, M. **Pouyakian**, R. Zendehtdel, R. Ramezani; *Presenting a New Method to Evaluate the Severity of the Incompatibility of Dangerous Goods Based on FTOPSIS: A Case Study of the 4.3 Class*; *ACS Chem. Health Saf.*; American Chemical Society, 2021
16. M Vahabi, M **Pouyakian**, Z Mohammadi, G Hesam, HA Kashani; *Descriptive study of safety and health training content in Iran's universities and higher education institutes*; *International Journal of Occupational Hygiene*; 13(2), June 2021
17. M **Pouyakian**, MJ Jafari, F Laal, F Nourai, E Zarei, *A comprehensive approach to analyze the risk of floating roof storage tanks*, *Process Safety and Environmental Protection*, Volume 146, (2021) 811-836
18. Jafari, M.J., **Pouyakian**, M., khanteymoori, A., Hanifi, S.M. *Development of a framework for dynamic risk assessment of environmental impacts in chemicals warehouse using CFD-BN*. *International Journal of Environmental Science and Technology*, 2021
19. M **Pouyakian**. *A Systemic Control Model for Covid-19 Outbreak from a Safety Engineering Perspective*. *Journal of Occupational Hygiene Engineering* 7 (2), 2020, 49-56
20. B. Moloudpourfard, M. **Pouyakian**. *Application of Cost Justification Index of Safety Control Measures (J) In William Fine's Method in the Iranian Studies: A Systematic Review*. *IJOH*, July 2020. Vol. 12, No. 2
21. A Riazat, S Sury, N Saffarinia, Z Damerchi, M **Pouyakian**. *Investigating the Causes of Nursing Errors and Its Reduction Countermeasures in Recent Studies: A review*. *Iranian Journal of Ergonomics* 8 (1), 2020, 74-88
22. A Chavoshi, F Karamali, H Rahimi, A Moravveji, M **Pouyakian**, *Investigation of Registered Work-related Accidents for Urban Sanitation Workers of Kashan Municipality from 2015 to 2018*. *Occupational Hygiene and Health Promotion*, 4 (3), 267-278, 2020
23. MJ Jafari, M **Pouyakian**, SM Hanifi, *Reliability evaluation of fire alarm systems using dynamic Bayesian networks and fuzzy fault tree analysis*, *Journal of Loss Prevention in the Process Industries* 67, 2020, 104229

24. SR Pordanjani, MJ Jafari, M **Pouyakian**, A Shafikhani, AA Shafikhani. Investigating the correlation between body temperature and body mass index: a meta-analysis. *Electronic Physician* 12 (3) 2020
25. **Pouyakian** M, Ranjbarian M, khademi_kalantari K, khodakarim S, Ahmadlu M. Relationship between the physical parameters of socket wrench hand tool with the electrical activity level of forearm muscles among maintenance unit workers of a university. *ioh*. 2020; 17 (1) :1-11
26. F Laal, M **Pouyakian**, MJ Jafari, F Nourai, AA Hosseini, A Khanteymoori. Technical, human, and organizational factors affecting failures of firefighting systems (FSs) of atmospheric storage tanks: Providing a risk assessment approach using Fuzzy ... *Journal of Loss Prevention in the Process Industries*, 2020, 104157. DOI: 10.1016/j.jlp.2020.104157
27. Mojtaba Zokaei, Mohammad Javad Jafari, Reza Khosrowabadi, Ali Nahvi, Soheila Khodakarim, Mostafa **Pouyakian**, Tracing the physiological response and behavioral performance of drivers at different levels of mental workload using driving simulators, *Journal of Safety Research*, January 2020 (72) DOI: 10.1016/j.jsr.2019.12.022
28. S Khakkar, M Ranjbarian, S Khodakarim, M **Pouyakian**. Evaluation of Fire Risk in Commercial Complexes of District 12 of Tehran and its Relationship with their Structural and Usage Characteristics. *Journal of Health and safety at Work* 10 (3) 2020, 31-34
29. **Pouyakian** M, Khatabakhsh A, Jafari M J. The analysis of hazard identification and risk assessment studies with the approach to assessing risk control measures since 2001 to 2017: A systemic review. *Iran Occupational Health*. 2020; 16 (6) :1-10
30. Ameneh Fayyazi, Mostafa **Pouyakian**, Mohammad Javad Jafari, Soheila Khodakarim, A Survey among Three Iranian Occupational Groups: General Knowledge of Chemical Safety and Familiarity with GHS and Outdated Labeling Systems, *ACS Chemical Health and Safety*, January 2020, 27(1): 43-51, DOI: 10.1021/acs.chas.9b00002
31. Mostafa **Pouyakian**, Mohammad Javad Jafari, Reza Khosrowabadi, Ali Nahvi, Soheila Khodakarim, Mojtaba Zokaei, developing a Checklist for Cognitive Characteristics of Driving Scenarios in Dual-Task Studies: The Case of Cell Phone Use While Driving, *Health Scope*, November 2019, DOI: 10.5812/jhealthscope.86836
32. Maryam Maghsoudipour, Ramin Moradi, Mostafa **Pouyakian**, Mehdi Yaseri, Time of Day and Time on Task Effects on Working Memory and Sleepiness of Bus Drivers, *Sleep* 42(Supplement_1):A252-A252, DOI: 10.1093/sleep/zsz067.630
33. Khatabakhsh A, Maleki Z, Hejazi H, **Pouyakian** M. Analysis of Hazard Identification Methods in Process Industries Using Analytic Network Process Technique (ANP). *Iran Occupational Health*. 2019; 16 (2) :44-52
34. Fereydoon Laal, Mostafa **Pouyakian**, Rohollah F Madvari, Amir H Khoshakhlagh, Gholam H Halvani: Investigating the Impact of Establishing Integrated Management Systems on Accidents and Safety Performance Indices: A Case Study. *Safety and Health at Work*, Volume 10, Issue 1, March 2019, Pages 54-60

35. Ameneh Fayazi, Mostafa **Pouyakian**, Mohammad Javad Jafari, Soheila Khodakarim: Development and validation of two awareness and current status assessment questionnaires for the hazardous chemically-exposed staffs through Globally Harmonized System of Classification and Labeling of Chemicals (GHS), *Journal of Health and Safety at Work*, Volume 9, Issue 1 (4- 2019)
36. Jafari M J, **Pouyakian** M, Khosrowabadi R, Taheri F, Nahvi A, Zokaei M.: brainwave recording protocol in human samples: *Neuroergonomics studies*, *Iran Occupational Health*, Volume 15, Issue 3 (8-2018)
37. Mostafa **Pouyakian**, Mahnaz Saremi, Korosh Etemad, Hamid Shafagh,: Investigation of Ergonomic Issues of Pharmacies: Conducted Qualitative Study, *Journal of Health and Safety at Work*, Volume 8, Issue 3 (9-2018)
38. Mohammad Javad Jafari, Heidar Mohammadi, Genserik Reniers, Mostafa **Pouyakian**, Farshad Nourai, Seyed Ali Torabi, Masoud Rafiei Miandashti: Exploring inherent process safety indicators and approaches for their estimation: A systematic review. *Journal of Loss Prevention in the Process Industries*, Vol. 52, 2018, pp. 66-80
39. Alireza Pakgohar, Mostafa **Pouyakian**, Abolhasan Shaheri, Mahnaz Saremi. Evaluation of ergonomic condition of Gazvins' governmental hospitals using prioritization approach. *Iran Occupational Health*, Vol. 14, No. 3, 2017
40. Mohammad Javad Jafari, Farshad Nourai, Mostafa **Pouyakian**, Seyed Ali Torabi, Masoud Rafiee Miandashti, Heidar Mohammadi: Barriers to adopting inherently safer design philosophy in Iran. *Process Safety Progress* 09/2017;; DOI:10.1002/prs.11927
41. Davood Eskandari, Mohammad Javad Jafari, Yadollah Mehrabi, Mostafa **Pouyakian**, Mostafa Mirghotbi, A qualitative study on organizational factors affecting occupational accident, *Iranian Journal of Public Health*, Vol. 46, No.3, Mar 2017, pp.380-388
42. Fereydoon Laal, Mostafa **Pouyakian**, Roohollah Fallah Madvari, Mahdi Mohammadi, Mohammad Ali Rezaee, Najaf Noorzadeh, Hossein Ali Adineh. Survey of the Patient Safety Culture in the Clinics and Hospitals of Chabahar, Iran. *Journal of Patient Safety & Quality Improvement* (2017) Vol. 5 (3) pp. 561-566
43. Mostafa **Pouyakian**, Rozita Farhadi, Mohammad Javad Jafari, Fatemeh Zarei: Evaluation of the Explosion Hazard of a 1-Butene Tank in a Polymer Complex Based on Consequence Analysis. *Journal of Human, Environment and Health Promotion* 11/2017; 2(3):147-153.
44. Hadi Maddahi, Mostafa **Pouyakian**, Farhad Tabatabai Ghomsheh, Leila Piri, Reza Osqueizadeh, Design and cognitive evaluation of 6 dynamic lane departure warning symbols, *Traffic Injury Prevention*, 2016, Vol. 17, No. 8, 842-847
45. **Pouyakian** M, Asilian Mahabadi H, Yazdi SM, Hajizadeh E, Nahvi A, Impact of headway distance and car speed on drivers' decision to answer an incoming call, *Traffic Injury Prevention*, Vol. 14 (2013) pp. 749-755

46. **Pouyakian M**, Asilian Mahabadi H, Yazdi SM, Hajizadeh E, Nahvi A, *Using mobile phone while driving: a simulator study of a dual-task condition*, *Iranian Rehabilitation Journal*, 2012, Vol. 10 (2012) pp. 31-36
47. *Impact of meaning and difficulty level of an audio-verbal task in Short-Term Memory (STM) performance while driving by simulator*, Yazdi SM, Asilian Mahabadi H, **Pouyakian M**, Hajizadeh E, *Iran Occupational Health*; 2013 Vol. 10, No. 2, P 24-34
48. *Investigating the legibility, readability, formality and attractiveness of the most popular Persian fonts used by students in PowerPoint slides*, Seif F, Yektaee T, **Pouyakian M**, *Journal of Ergonomics*; 2013, Vol. 1, No. 1 [In Persian]
49. *Effects of Using Mobile phone on Traffic Safety: Review of Research Methodologies*, **Pouyakian M**, Asilian Mahabadi H, Yazdi SM, Hajizadeh E, Arghami Sh, *Scientific Research Journal of Health System Research*; 2012 Vol.8 No.4 P 1-11 [In Persian]
50. *Effects of Safety Signs on the Modification of Unsafe Behaviours*, Arghami Sh, **Pouyakian M**, Mohammadfam I, *The Scientific Journal of Zanjan University of Medical Sciences*, 2007 Vol.17 No. 68, P 93-98 [In Persian]
51. *Safety analysis of a corn processing industry by Energy Trace and Barrier Analysis method: A case study*, **Pouyakian M**, Arghami Sh, Asilian Mahabadi H, Mortazavi SB, *Iran Occupational Health*, 2006; Vol.4 No.4 P 27-34 [In Persian]
52. *Ergonomic evaluation of workers' posture in Pars Switch Company using OWAS method*, Ghasemkhani M, **Pouyakian M**, *The Scientific Journal of Zanjan University of Medical Sciences*, 2001 Vol.10 No. 41, P 39-43 [In Persian]

Books

- The Role of human in Safety, human-centered approach to prevention of accidents; Shirazeh Arghami and Mostafa Pouyakian; Zanjan University of Medical Sciences Publications, Zanjan, Iran. [In Persian]
- Chemical safety; classification, labeling, packaging, transportation and storage. Pouyakian M, Arghami Sh, 2017, Shahid Beheshti University of Medical Sciences Publications, Tehran, Iran. [In Persian]
- Safety at workplace 1. Arghami Sh, Pouyakian M, 2012 by Fanavaran Publication in collaboration with Zanjan University of Medical Sciences Publications, Tehran, Iran. [In Persian]
- Principles of safety in Industry and services. Pouyakian M, Arghami Sh, 2004 by Fanavaran Publications, Tehran, Iran. [In Persian]

Chapter in Book

- **Optimizing the Allocation of Risk Control Measures Using Fuzzy MCDM Approach: Review and Application (Chapter 4)**; in "Linguistic Methods Under Fuzzy Information in System Safety and Reliability Analysis", edited by Mohammad Yazdi, **Springer Nature**, 2022

- **Smart Decision Fuzzy-Based Data Envelopment Model for Failure Modes and Effects Analysis (Chapter 7)**; in “Linguistic Methods Under Fuzzy Information in System Safety and Reliability Analysis”, edited by Mohammad Yazdi, **Springer Nature**, 2022
- **Car and Driving Ergonomics (Chapter 44)**; in Principles of Ergonomics and Human Factors Engineering; edited By Alireza Choobineh and Hadi Daneshmandi, Shiraz University of medical Sciences Publications, Shiraz, Iran, 2021 [In Persian]
- **Chemical safety (chapter 5-Part 3)**, in Textbook of public health, Dr Hossein Hatami et.al. 2019 By Ardjmand publications, Tehran, Iran. [In Persian]
- **Safety: History and Basics (chapter 1)**, in Principles of Safety Management and Engineering, Edited by Dr. Mehdi Jahangiri, Shiraz University of Medical Sciences Publications, 2019, Tehran, Iran. [In Persian]
- **Safety standards (chapter 2)**, in Principles of Safety Management and Engineering, Edited by Dr. Mehdi Jahangiri, Shiraz University of Medical Sciences Publications, 2019, Tehran, Iran. [In Persian]
- **Transportation safety (chapter 23)**, in Principles of Safety Management and Engineering, Edited by Dr. Mehdi Jahangiri, Shiraz University of Medical Sciences Publications, 2019, Tehran, Iran. [In Persian]

Thesis Supervision/Consultancy

- Supervisor of 3 fulfilled PhD theses
- Supervisor of 27 fulfilled MSc and MPH theses
- Advisor of 13 fulfilled MSc, MPH, and PhD theses

Membership of Professional Associations

2023-present	Member of the Supreme Council of Technical Protection, Ministry of Cooperation, Labor and Social Welfare, Tehran, Iran
2000-present	Member of the Iranian Ergonomics Society (IES), Tehran, Iran
2013-present	Member of the Iranian Occupational Health Association (IOHA), Tehran, Iran

Awards and Honors

1999	1st rank in national entrance examination of universities for BSc degree
2004	Elected as the 1st rank and prominent student among the graduated MSc students of occupational health engineering, Tarbiat Modares University, Tehran, Iran

Languages

English	Fluent in reading and good in speaking, writing and listening
Persian	Fluent in speaking, writing, reading and listening

Turkish Native language
(Azeri)