

PERSONAL INFORMATION **Ali Salehi Sahl Abadi**



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Date of birth 22/06/1985- June 22nd 1985 | Nationality Iranian

Shahid Beheshti University of Medical Sciences
School of Public Health and Safety
Department of Occupational Health Engineering and Workplace Safety

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EDUCATION

- 2011 - 2016 **PhD in Occupational Health Engineering and Workplace Safety**
Tehran University of Medical Sciences (TUMS) Tehran, Iran
Occupational Health Engineering and Workplace Safety
Determination of Maximum Acceptable Weight of Load (MAWL) in Iranian Men between 20-30 years old based on Physiological Indices and Electromyography Data (2011-2016)
- 2005 - 2009 **Master of Science in Occupational Health Engineering and Workplace Safety**
Tehran University of Medical Sciences (TUMS) Tehran, Iran
Occupational Health Engineering and Workplace Safety
Assessment and Determination of Cervical, Dorsal and Lumbar Spine Curvature and its Relationship with the Prevalence of Back Musculoskeletal Disorders in Workers of an Automotive Industry (2005-2009)
- 2003 - 2005 **Bachelor of Sciences in Occupational Health Engineering and Workplace Safety**
Shahid Beheshti University of Medical Sciences and Healthcare Services Tehran, Iran
Occupational Health Engineering and Workplace Safety
- 2000 - 2003 **Associate Degree in Occupational Health Engineering and Workplace Safety**
Ahvaz University of Medical Sciences and Healthcare Services Ahvaz, Iran
Occupational Health Engineering and Workplace Safety

RESEARCH INTERESTS

- Assessment and Evaluation of hazardous postures in workplaces
- Ergonomic interventions in the workplace to reduce musculoskeletal disorders
- Evaluation of Musculoskeletal Disorders in the Workplace from an Ergonomic Perspective
- Ergonomic Evaluation of healthcare centers to reduce staff workload and fatigue
- Studying and investigation of mental and physical workload of employees in different fields
- Investigating Human Errors in Different Areas
- Assessment of Cognitive Performance in Different Tasks
- Physiological and Occupational Factors Affecting Mental Fatigue Disorders Resulting from Fatigue
- Stress, Burnout and Job Performance and Productivity
- Assessment of Manual Load Handling and Development of National and Domestic Ergonomic Standards for Acceptable Manual Load Handling Limits in Workplaces

LIST OF PUBLICATIONS

- Occupational stress and mental health among nurses in a medical intensive care unit of a general hospital in Bandar Abbas in 2013. *Electronic Physician*, Year: 2015, Volume: 7, Issue: 3, Pages: 1108-1113, DOI: 10.14661/2015.1108-1113.
- Effects of box size, frequency of lifting, and height of lift on maximum acceptable weight of lift and heart rate for Iranian male university students. Accepted in *Electronic Physician* August04, 2015.
- Evaluation of Ergonomic Problems of Mf285 Tractors. *Journal of Life Science and Biomedicine* 4(5): 421-423, 2014.
- Determining the changes in back compressive force when measuring maximum acceptable weight of lift in Iranian male students. *Iranian Journal of Public Health*, Year: 2016, Volume: 45, Issue: 9, Pages: 1199-1207
- Determining the changes in electromyography indices when measuring maximum acceptable weight of lift in Iranian male students. *J Biomed Phys Eng*. 2018 Mar; 8(1): 73–86.
- Biological Monitoring of the Oncology Healthcare Staff Exposed to Cyclophosphamide in Two Hospitals in Tehran. *Int J Cancer Manag*. 2019 January; 12(1):e86537
- Relationship between Lean Manufacturing and Ergonomics. 2018, In book: *Advances in Ergonomics of Manufacturing: Managing the Enterprise of the Future*, pp.162-166
- Evaluation of occupational exposure to heat stress and physiological responses of workers in the rolling industry: March 2019 *The Open Public Health Journal* 12(1):114-120
- Risk Assessment of Musculoskeletal Disorders in Hospital Personnel due to Patient Transfer by DINO and PTAI in Selected Hospitals Affiliated to Shahid Beheshti University of Medical Sciences, Tehran, Iran. *Journal of Military Medicine*, March 2020, Volume 22, Issue 3, pp. 289-298.
- Evaluation the Prevalence of Musculoskeletal Disorders among the Medical Staff of Selected hospitals of Shahid Beheshti University of Medical Sciences in 2018. *Journal of Safety Promotion and Injury Prevention*, Vol.7, No.2, summer 2019.
- Ergonomic Evaluation of Office Staff by Rapid Office Strain Assessment Method and Its Relationship with the Prevalence of Musculoskeletal Disorders. *Journal of Health*, Vol. 11, No. 2, Summer 2020, Pages 223-234
- Investigating the Causes of Nursing Errors and Its Reduction Countermeasures in Recent Studies: A Review. *Iran J Ergon*. 2020; 8 (1) :74-88
- The Prevalence of Musculoskeletal Disorders among Miners around the World: A Systematic Review

and Meta-Analysis. Iran J Public Health, Vol. 50, No.4, Apr 2021, pp.676-688

- Association of safety climate and chronic multidimensional occupational fatigue in nurses of Shahrekord hospitals, Trends in Med Sci. 2021;1(3):e119453.
- Prioritizing and providing sound pollution control strategies at the CPF of North Azadegan Oilfield Project, Sound & Vibration journal. , 2021, vol.55, no.4, DOI: 10.32604/sv.2021.016662
- Investigation the Effect of Job Stress on Oxidative Stress in Nurses of Selected Hospitals in Sanandaj, Journal of Military Medicine,2021, Volume 23, Issue 5,Pages: 414-423
- Relationship between the prevalence of musculoskeletal disorders and postural status and ergonomic risk factors in the workplace, Koomesh -Volume 23, Issue 4 (July and August 2021), 494-501
- Evaluation of Compressive and Shear Forces Exerted on the Lower Back in Manual Load Handling Tasks in Young Workers of Selected Block Maker Using 3DSSPP. International Journal of Occupational Hygiene, Vol. 13, No. 1, 2021.
- Prevalence of Musculoskeletal Disorders and Occupational Stress among Workers of an Engineering Company in Iran during the Covid-19 Pandemic, 2021: A Cross-Sectional Study, JOHE 2021, 10(3): 183-192
- Study of the effect of simultaneous exposure to noise and heat stress on the activity level of biceps and flexor muscles, Iran Occupational Health. 2022 (01 Apr);19: 7
- Effectiveness of Training Program in Manual Material Handling: A Health Promotion Approach. Journal of Education and Health Promotion (JEHP). 2022 Mar 23. doi: 10.4103/jehp.jehp_492_21
- Study of suicidal thoughts and intentions with regard to job stress among Female medical students living in dormitory with a mental health promotion approach. Journal of Education and Health Promotion (JEHP). April 2022 DOI: 10.4103/jehp.jehp_1425_21
- Investigating the Prevalence of COVID-19 Among the Armed Forces and Its Impact on Their Mental Health: Systematic Review. Journal of Military Medicine,2022, Volume 24, Issue 2,Pages: 1086-1095
- Investigation of occupational fatigue and safety climate among nurses using the structural equation mode, Work 72 (2022) 1129–1139
- Effectiveness of educational intervention on reducing oxidative stress caused by occupational stress in nurses: A health promotion approach, Journal of Education and Health Promotion (JEHP), 2022, 11:273. DOI: 10.4103/jehp.jehp_1425_21.
- Relationship between the status of occupational health management and job satisfaction among farmers: A health promotion approach, Journal of Education and Health Promotion (JEHP), 2022, 11:390, DOI: 10.4103/jehp.jehp_1037_21.
- Cancer and Noncancer Risk Assessment for Workers Exposed to the Chemical Pollutants in Ahvaz Gas Stations, Iran, Int J Env Health Eng 2022, 11:19.
- Investigating the Probability of Human Error in Iranian Industrial Control Rooms: A Systematic Review, International Journal of Occupational Hygiene, Vol 14 No 1 (2022).
- Applying the HEART Technique to Identify and Assess the Human Error in the Central Railway Traffic Control Room, J Health Saf Work 2022, 12(3): 595-616.
- Psychological Effects of the Outbreak of COVID-19 on the Mental Health of Healthcare Workers in Iran, Iranian Rehabilitation Journal 2022, 20(3): 379-386.
- Investigating the Relationship between Noise Exposure and the Level of Some Reproductive Hormones in Men Working in Power Plants, Journal of Military Medicine 2022, Volume 24, Issue 7 Pages: 1462 -1473.
- Design and psychometric analysis of the safety harness usability and comfort assessment tool (SH

UCAT),heliyon, Volume 9, Issue 2, February 2023, e13524.

- The effects of personal protective equipment on heart rate, oxygen consumption and body temperature of firefighters: A systematic review, *Work*, 2023;76(1):95-107. doi: 10.3233/WOR-220121.
- Semi-quantitative risk assessment for workers exposed to occupational harmful agents in an oilfield in Iran, *Work*, 2023;76(1):147-157. doi: 10.3233/WOR-220077.
- Safety culture and perception of warning signs of chemical hazards among hospital cleaning workers: a cross-sectional study, *BMC Public Health*, 04 May 2023
- Workplace Risk Factors Assessment in North-Azadegan Oil Field Based on Harmful Agents Risk Priority Index (HARPI), *Iranian Journal of Public Health*, Vol 52 No 10 (2023)
- Social Inequalities of Climate Change With a Regional and Global Approach, *Health in Emergencies & Disasters Quarterly*, Volume 8, Issue 4 (Summer 2023)
- Operation and Maintenance (O&M) Risks Management Based on the Hazard and Effect Management Index (HEMI) in an Oilfieldm, *Journal of Chemical Health Risks*, (2023) 13(0)
- Relationship between Demographic and Employment Parameters with Job Stress Among Employees of an Oil Field in Western Iran, Vol. 21 No. 1 (2023): *Spektrum Industri* - April 2023
- The Incidence of Lung Cancer and Smoking in Iran, Turkey, England, and the USA: A Comparative Study, *Iranian Rehabilitation Journal*, Volume 21, Issue 2 (June 2023)
- Removal of cadmium from aqueous solution using nano *Prosopis cineraria* leaf ash (NPCLA), *Environmental Health Engineering and Management* • April 2023
- Experimental investigation of hydrogen sulfide adsorption from drilling fluid wastes by functionalized carbon nanotubes, *International Journal of Environmental Health Engineering*, August 2023 - Volume 12 - Issue 5
- Assessment and Determination of Cervical, Dorsal and Lumbar Spine Curvature and its Relationship with the Prevalence of Musculoskeletal Back Disorders in the Workers of an Automotive Industry in 2007 Master's Final Project)
- Ergonomic Posture Evaluation of Dates Packaging Workers Using REBA Method of Engineer Zareiy. *Journal of Agricultural Engineering* Volume 37 Number 1, Summer 2014.
- Investigation of Ergonomic Problems of the Ferguson Tractor MF285 at the Second National Conference on Sustainable Agriculture and Natural Resources. (2014)
- Evaluation of Musculoskeletal Disorders among Drivers of Massey Ferguson 285 Tractors at the Second National Conference on Agriculture and Natural Resources. (2014)
- Evaluating the Risk of Musculoskeletal Disorders in an Industrial Company Using NERPA and QEC Methods and Comparing Their Results, *Journal of Preventive Medicine*, Third Year, No.4, Winter of 2016, Pages 67-75
- Research Plan Designer and Executive, Prevalence of musculoskeletal disorders and its associated risk factors of mining workers: a systematic review and meta-analysis
- Research Plan Designer and Executive, Investigating the Relationship between Work Ability Index and Work Exhaustion with Maximum Aerobic Capacity (VO₂max) among a Cement Factory Employees
- Research Plan Designer and Executive, Musculoskeletal Disorders Risk Assessment among the staff of hospitals and health care centers affiliated to Shahid Beheshti University of Medical Sciences (2017)
- Research Plan Designer and Executive ,Investigating the effects of heat stress on functional, physiological and mental workload parameters of students

- Research Plan Designer and Executive, Evaluation of the Prevalence of Musculoskeletal Disorders and Manual Handling by MAC method in a Printing Factory in Tehran and Suggestion of Control Measures and Educational Intervention in this field in 2016.
- Research Plan Designer and Executive, Assessment of Musculoskeletal Disorders Risks Caused by Carrying Patient in Nursing Jobs in Selected Hospitals Affiliated to Shahid Beheshti University of Medical Sciences Using DINO and PTAI methods.
- Executor of a Research Project on Evaluation of Musculoskeletal Disorders and Postural Evaluation Using RULA Method in Hairdressers in Ahvaz.
- Implementation of a Research Project on the Evaluation of Job Postures among Central Workshop Employees of Ahwaz Steel Industries Using RULA and QEC Methods
- Collaborating in a Research Project Entitled Risk Assessment of Patient Carrying Using MAPO INDEX among Health Care Workers of Imam Khomeini Hospital in Ahvaz (2010)
- Collaboration in Research Design to Determine the Correlation Between Complaints of Musculoskeletal Disorders and Postural Disorders by OWAS Method and Nordic Questionnaire among Nursing Staff of Golestan Hospital
- Collaboration in Research Project on the Prevalence and Factors Affecting Low Back Pain in Emergency Personnel of Ahvaz Emergency Centers in 2011
- Investigating the Prevalence of Musculoskeletal Disorders of Tehran Bus Drivers 0457 Using RULA Method and its Comparison with BODY MAP questionnaire (presentation lecture and third place in the Fifth National Student Congress on Occupational Health, Isfahan, June 2004)
- Assessment and Determination of Cervical, Dorsal and Lumbar Spine Curvature and its Relationship with the Prevalence of Musculoskeletal Back Disorders in Workers of an Automotive Industry in 2008 , presentation lecture and First Place in the First National Safety, Health and Environmental Congress, Tehran, Iran, January 2008)
- Evaluation of Changes in Electromyography Indices and Determination of Maximum Acceptable Weight Load in Iranian Male Students (Lecture at 10th National Conference on Occupational Health and Safety, Gilan, May 2016)
- Evaluation of the Prevalence of Musculoskeletal Disorders and Manual Handling Using MAC Method in a Printing Factory in Tehran and Suggestions of Control Measures and Educational Intervention in this Field in 2016 (Poster Presentation at the Third Biannual Congress of Ergonomics of Iran, Tehran, October 2018)
- Lecture in the One-Day Continuous Program of Continuing Medical Education in General Practitioners at Ahvaz University of Medical Sciences in November 2008
- Lecture in Occupational Posture Evaluation Workshop for Khuzestan Health Centers Experts in January 2009
- Speech at Work-Conference of Musculoskeletal-Skeletal Diseases Related to Health Experts in Khuzestan Province in February 2010

ACADEMIC / WORK EXPERIENCE

November 2016 – Present

Assistant Professor

Shahid Beheshti University of Medical Sciences (SBUMS)

Tehran, Iran

Faculty of Occupational Health Engineering and Workplace Safety

Full-time Faculty Board of Science Member, Department of Occupational Health Engineering,

- Human Factors Engineering (Ergonomics)
- Integrated Management Systems

- Hazard Identification and Risk Assessment in the Workplace
- Workplace lighting
- Solid Mechanics

March 2008 – Feb 2011

Assistant Professor

Ahvaz University of Medical Sciences (AUMS)

Ahvaz, Iran

Faculty of Occupational Health Engineering and Workplace Safety

Full-time Faculty Board of Science Member, Department of Occupational Health Engineering,

- Human Factors Engineering (Ergonomics)
- Industrial Safety
- Identification and Evaluation of Chemical Hazardous Agents in the Workplace
- Identification and Evaluation of Physical Hazardous Agents in the Workplace
- Hazard Identification and Risk Assessment
- Workplace lighting
- Industrial Ventilation Systems Design

- Laboratory Supervisor of Occupational Health Engineering Labs, School of Public Health, Ahvaz University of Medical Sciences, 2010
- Head of Occupational Health Engineering Library Department, School of Public Health, Ahvaz University of Medical Sciences, 2010
- Referee in reviewing articles in the Journal of Ahvaz University of Medical Sciences
- Assistant Professor of Master's Thesis on Ergonomic Evaluation of PATH Dates in 2010
- Assistant Professor in Student Projects at School of Public Health, Ahvaz University of Medical Sciences
- Instructor of Industrial Safety and Health courses at Mehr System Monitoring Company (2005-2009)
- HSE Expert in Iman Kia Sanat Company from 2005 to 2008
- Expert in Measurement and Monitoring of Hazardous Agents in Kavian Sanat West & Dena Teb Companies in Tehran from 2005 to 2006
- Occupational health consultant at Zarpood Textile Company in 2005
- Occupational health consultant at Damavand Green Company in 2006
- Occupational health consultant at Avam Sanat Co. in 2007
- Occupational health consultant at Anten Hani Company in 2007

Courses, Workshops & Certifications

- Occupational Health and Safety Assessment Series (OHSAS 18000 & 18001) from TUV
- Health, Safety & Environmental Management Systems (HSE-MS) from TUV
- Noise and Vibration Measurement and Monitoring in the Workplace from IMQ
- Lighting Measurement and Monitoring in the Workplace from IMQ
- Reference Manager, From Dean of Research, School of Public Health, Ahvaz University of Medical Sciences
- Standard for ISO 17025 Research Laboratories of EDC (Ahvaz University of Medical Sciences)
- Hearing Protection, Emergency Response Planning and Workplace Ergonomic Assessment from Saveh County Public Health Center
- Participation in Training Seminar for University Counselors in Ahvaz University of Medical

- Sciences
- Participating in Course Planning Workshop at Ahwaz University of Medical Sciences
- Participation in English Paper Writing Workshop at Ahwaz University of Medical Sciences
- Participation in Health and Safety Conference of Iranian Occupational Health Science Association at Tehran University of Medical Sciences in May 2009

PERSONAL SKILLS

Languages

- Persian (Farsi) (Native Speaker)
- English (Proficient User)

Computer

- Capable of using SPSS
- Proficient in using Microsoft Office including Outlook, Word, Excel and Power-point

Misc.

- Proficient in project management and leadership skills
- Excellent in team working

HONORS & AWARDS

REFERENCES

1. Prof. Dr. Mohammad Javad Jafari

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Professor, School of Public Health, University of Shahid Beheshti Medical Sciences, Tehran, Iran
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2. Prof. Dr. Mansur Rezazadeh Azari

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