

Curriculum Vitae

Mohammad Javad Zare Sakhvidi, Ph.D.

Professor

Personal and Contact Information

Name: **Mohammad Javad Zare Sakhvidi, Ph.D.**

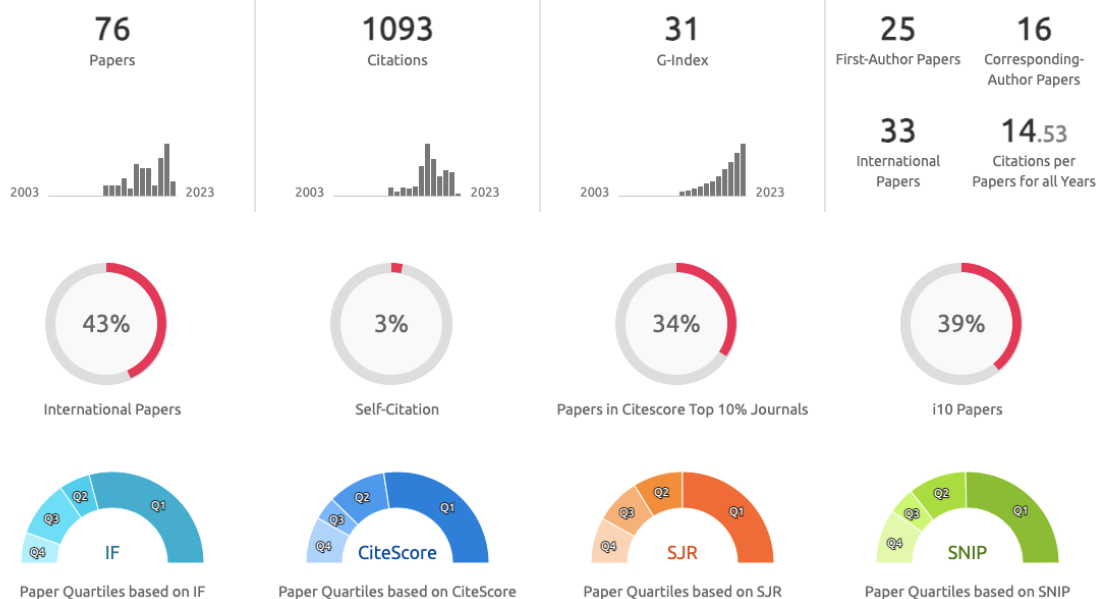
Data and place of birth: 16, September, 1981; Iran

Work address: Department of Occupational Health;
School of Public Health;
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Education; Research Fellowships

Post-doctoral researcher	Inserm, France (Association between air pollution exposures and ageing [cognitive and cancer outcomes in the Gazel and CONSTANCES cohorts])	September 2019-April 2021
Short-term visiting scholar	Breath Research Institute, Austrian Academy of Sciences (Early detection of lung cancer by exhaled breath biomarkers)	Jan. 2011-April 2011
Ph.D.	Occupational Health, Hamadan University of Medical Sciences (received scholarship from Iranian Ministry of Health)	Feb. 2006-June. 2011
Master	Occupational Health, Tehran University of Medical Sciences	Sep. 2003-Aug. 2005
Undergraduate	Occupational Health, Tehran and Yazd University of Medical Sciences	Sep. 1999-Aug. 2003



Thesis

- Ph.D. Thesis title: “Development of an exposure assessment method for the selected halogenated hydrocarbons in air using Solid Phase Microextraction”;
Date of the thesis defense: July 2011
Thesis Supervisor: Professor Abdulrahman Bahrami
- M.Sc. Thesis Title: “Hexavalent Chromium emission in air and exposure under different exposure scenarios in welding operations”
Date of the thesis defense: August 2005
Thesis Supervisor: Professor Farideh Golbabaei

Honors and awards

- Distinguished research director at deputy of research and technology, Shahid Sadoughi University of Medical Sciences (2015)
- Ranked first in M.Sc. national entrance exam at Iranian ministry of science and technology
- Ranked third in M.Sc. national entrance exam at Iranian ministry of health
- Ranked third in Ph.D. national entrance exam at Iranian ministry of health

Professional Experience

Employment

- | | |
|--|-------------|
| ○ Professor,
Department of occupational health, School of public health,
Shahid Sadoughi University of medical sciences | 2023 - now |
| ○ Associate professor,
Department of occupational health, School of public health,
Shahid Sadoughi University of medical sciences
Responsibilities: Teaching relevant courses and supervising student’s
thesis | 2017 - 2023 |
| ○ Assistant professor,
Department of occupational health, School of public health,
Shahid Sadoughi University of medical sciences
Responsibilities: Teaching relevant courses and supervising student’s
thesis | 2011-2017 |

Experiences in population studies

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| ○ Scientific director of Yazd PERSIAN Cohort ¹ ,
Shahid Sadoughi University of medical sciences
Responsibilities: Data management and supervision of proposals and
publications of the National PERSIAN cohort in the University | 2018 - 2019 |
| ○ Member of principal investigators (PIs) and steering committee
at National Birth Cohort ² ,
Deputy of Research and Technology, Ministry of Health
Responsibilities: Proposal development, design and implementation of
the birth cohort at 4 different sites in Iran. | 2015 - 2021 |

1 - Details about the study are available at: <http://persiancohort.com/>

2 - Details about the project are available at: <http://persian-bc.family/>

- Member of principal investigators (PIs) at Yazd PERSIAN Cohort, 2015 - 2021
Deputy of Research and Technology,
Shahid Sadoughi University of medical sciences
Responsibilities: Proposal development, design and implementation of the cohort
- Director of cohort studies center, 2015 - 2018
Deputy of Research and Technology,
Shahid Sadoughi University of medical sciences
Responsibilities: Establishment and completion of enrollment phase (10000 subjects) of National PERSIAN cohort in Yazd

Committee and administrative works

Title	Holding duration
○ Vice- chancellor of research and technology School of public health, Shahid Sadoughi University of Medical Sciences Responsibilities: Managing research activities of academic staff, students and affiliated research centers to achieve the University and Ministry of health goals, , budgeting, etc.	2021-now
○ Secretary of the Institutional Ethics Committee School of public health, Shahid Sadoughi University of Medical Sciences Responsibilities: Scheduling and managing ethics committee sessions to review the thesis's and research proposals ethical issues.	2021-now
○ Head of department of occupational health, School of public health, Shahid Sadoughi University of Medical Sciences Responsibilities: Day-to-day supervision of undergraduate and postgraduate students and staff	2016- 2019 2021- now
○ Member of the University research council Deputy of Research and Technology Shahid Sadoughi university of medical sciences Responsibilities: Policy-making about the University research plans and activities	2015- 2019 2021- now
○ Member of postgraduate research council, School of Public Health, Shahid Sadoughi university of medical sciences Responsibilities: Evaluation and appraisal of Postgraduate student's thesis proposals	2015- now
○ Member of national committee on revision of occupational exposure limits Deputy of health Ministry of health and medical education Responsibilities: revision of chemical exposure limits in the workplaces based on updated evidence	2016-2017

- Head of University Biobank committee 2015 - 2018
 Deputy of Research and Technology
 Shahid Sadoughi university of medical sciences
 Responsibilities: Establishment and day to day management of samples
 biobanking in the University

Teaching Experience (Short list)

- Air sampling methods (B.Sc. of Occupational Health)
- Analysis and evaluation of air samples (B.Sc. of Occupational Health)
- Dynamics of gases and aerosols (B.Sc. of Occupational Health)
- Air pollutants exposure assessment (M.Sc. of Occupational Health)
- Principles of air pollution control (B.Sc. of Occupational Health)
- Engineering methods in air pollution control (M.Sc. of Occupational Health)
- Research methodology (M.Sc. of Occupational Health)
- Medical literatures search (M.Sc. of Occupational Health)
- Scientific writing (M.Sc. of Occupational Health)
- Exposure modeling in occupational health (M.Sc. of Occupational Health)
- Thermal environment in the workplaces and its control (M.Sc. of Occupational Health)

Industry consultation

- Health and Safety advisor at Tehran refinery (Bam-Bastar Contractor)
 August-December 2005

Editorial and Reviewer roles

- A) Associate-Editor of Environmental Research (2022 IF: 8.3)
 - B) Grant reviewer for Iranian National Institute for Medical Research Development (NIMAD)
 - C) Regular reviewers of international and national peer-reviewed journals (e.g., 23 reviews for Elsevier journals at 2023), such as:
 - Lancet regional health
 - Environmental Health Prospective
 - Environment International
 - Environmental Pollution
 - Environmental Research
 - Science of the Total Environment
 - International Journal of Epidemiology
 - BMJ open
 - BMC Public Health
 - Journal of International Medical Research
 - Occupational Medicine Quarterly (In Persian: Teb-e Kar)
 - Iran Occupational Health (In Persian: Salamat-e Kar)
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Research interests

- Environmental and occupational epidemiology (main focus on urban exposome including particulate air pollution, noise exposure, thermal environment, and greenspace)
- Occupational exposure assessment (method development for gases and vapors and exposure modeling; using novel exposure markers and exposure assessment methods)
- Preventive behaviors in general and occupational environments

Technical Skills

- Statistical Packages: experienced user of R; also experienced in systematic review and meta-analysis using STATA.
- Geographic Information System and remote sensing: Environmental exposure to particulate matters, heat and green spaces and light at night using satellite remote sensing (experienced user of QGIS, and Google Earth Engine)
- Air pollution personal exposure assessment at outdoor environments and workplaces (sampling and analysis of particulate matters, gases and vapors and using quantitative and semi-quantitative models)
- Analytical instruments:
 - Experienced user of Gas Chromatography (GC): Excellent
 - Relatively good knowledge of working with mass spectrometer and interpretation of chromatograms)
 - Sampling and sample preparation with solid phase microextraction (SPME)
 - Theoretical background and practical experience atomic absorption spectroscopy and High-Performance Liquid Chromatography (HPLC)
- Other Methods: Alkaline Comet Assay; Spirometry; Audiometry, Alveolar Macrophage Carbon Loading (I am familiar with these methods because these are used in my student's thesis and research projects)

Languages

- Persian (Native)
 - English (Proficient)
 - French (Upper Intermediate)
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References

Dr. Payam Dadvand

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Publications

Guidelines

- **Bioaerosols exposure assessment at workplaces**; Published by Deputy of Health (OEL-BA-9503); Iranian Ministry of Health and Medical Education; 2017; ISBN: 978-964-905-348-6; (freely available at: <http://ceoh.umsha.ac.ir/uploads/9503.pdf>)
- **Occupational health at tanneries**; Published by Deputy of Health; Iranian Ministry of Health and Medical Education; 2016; ISBN: 978-600-6937-30-4; (freely available at: http://ier.tums.ac.ir/uploads/BH-94-1_edit13.pdf)
- **Occupational health for municipal waste collectors**; Published by Deputy of Health; Iranian Ministry of Health and Medical Education; (in press)

Papers

Patwary, Muhammad Mainuddin, **Mohammad Javad Zare Sakhvidi**, Sadia Ashraf, Payam Dadvand, Matthew HEM Browning, Md Ashraful Alam, Michelle L. Bell, Peter James, and Thomas Astell-Burt. "**Impact of green space and built environment on metabolic syndrome: A systematic review with meta-analysis.**" *Science of The Total Environment* (2024): 170977.

Zhu, Qiongyu, Maigeng Zhou, **Mohammad Javad Zare Sakhvidi**, Siru Yang, Sujuan Chen, Puyu Feng, Zhaoyue Chen, Zhiwei Xu, Qiyong Liu, and Jun Yang. "**Projecting heat-related cardiovascular mortality burden attributable to human-induced climate change in China.**" *Ebiomedicine* 103 (2024).

Masoud Rahmanian, **Mohammad Javad Zare Sakhvidi [corresponding author]**, Amir Houshang Mehrparvar, Fariba Zare Sakhvidi, Payam Dadvand. "**Association between occupational noise exposure and diabetes: A systematic review and meta-analysis.**" *International Journal of Hygiene and Environmental Health* [accepted manuscript; Date proof posted 06-Jul-2023]

Mohammad Javad Zare Sakhvidi, Amir Houshang Mehrparvar, Fariba Zare Sakhvidi, and Payam Dadvand. "**Greenspace and health, wellbeing, physical activity, and development in children and adolescents: An overview of the systematic reviews.**" *Current Opinion in Environmental Science & Health* (2023): 100445.

Mohammad Javad Zare Sakhvidi, Antoine Lafontaine, Emeline Lequy, Claudine Berr, Kees de Hoogh, Danielle Vienneau, Marcel Goldberg, Marie Zins, Cédric Lemogne, and Bénédicte Jacquemin. "**Ambient air pollution exposure and depressive symptoms: findings from the French CONSTANCES cohort.**" *Environment International* (2022): 107622.

Faezeh Sepahi Zoeram, Ali-asghar Ebrahimi, Amir Houshang Mehrparvar, Alireza Sarsangi Aliabad, Hossein Fallah Zadeh, Hamidreza Mehri, & **Mohammad Javad Zare Sakhvidi**. (2022). **Health risk assessment of inhalational exposure to heavy metals in drivers working in an urban desert city in the Middle East.** *Environmental Monitoring and Assessment*, 194(8), 1-9.

Mohammad Javad Zare Sakhvidi, Yang, J., Mohammadi, D., FallahZadeh, H., Mehrparvar, A., Stevenson, M., ... & Dadvand, P. (2022). **Extreme environmental temperatures and**

motorcycle crashes: a time-series analysis. Environmental Science and Pollution Research, 1-12.

Lequy, Emeline, **Mohammad Javad Zare Sakhvidi**, Danielle Vienneau, Kees de Hoogh, Jie Chen, Jean-François Dupuy, Valérie Garès et al. "**Influence of exposure assessment methods on associations between long-term exposure to outdoor fine particulate matter and risk of cancer in the French cohort Gazel.**" Science of The Total Environment (2022): 153098.

Mohammad Javad Zare Sakhvidi, Yang, J., Mehrparvar, A. H., Dzhambov, A. M., Ebrahimi, A., Dadvand, P., & Jacquemin, B. (2022). **Exposure to greenspace and cancer incidence, prevalence, and mortality: A systematic review and meta-analyses.** Science of The Total Environment, 156180.

Mohammad Javad Zare Sakhvidi, Lafontaine, A., Yang, J., Lequy, E., Artaud, F., Canonico, M., ... & Jacquemin, B. (2022). **Association between Outdoor Air Pollution Exposure and Handgrip Strength: Findings from the French CONSTANCES Study.** Environmental Health Perspectives, 130(5), 057701.

Mohammad Javad Zare Sakhvidi, Pablo Knobel, Mariska Bauwelinck, Carmen de Keijzer, Lilian Marie Boll, Giuseppina Spano, Monica Ubalde-Lopez et al. "**Greenspace exposure and children behavior: A systematic review.**" Science of the Total Environment (2022): 153608.

Mohammad Javad Zare Sakhvidi, Abdorreza Zarei, Vida Rezaei Hachesu, and Ahmad Zolfaghari. "**Evaluating the relationship between the respiratory exposure to the benzene with the primary damages of deoxyribonucleic acid and total antioxidant capacity in one of the oil companies in Iran.**" Environmental Science and Pollution Research (2022): 1-7.

Sepanlou, S., Najafi, F., Poustchi, H., Parsaeian, M., Ahmadi, A., Somi, M., ... **Mohammad Javad Zare Sakhvidi**, ... & Malekzadeh, R. (2022). **Prevalence, awareness, treatment, and control of hypertension based on ACC/AHA versus JNC7 guidelines in the PERSIAN cohort study.** Scientific Reports, 12(1), 1-10.

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Kheirandish, AhmadAli, Amirhooshang Mehrparvar, Abdellah Abou-Bakre, and **Mohammad Javad Zare Sakhvidi**. "Association between long-term occupational noise exposure and obesity." *Environmental Science and Pollution Research* (2021): 1-10.

Akhoundzardeini, Moslem, **Mohammad Javad Zare Sakhvidi**, Fahimeh Teimouri, and Mehdi Mokhtari. "Association between Exposure to Pesticides and Cognitive Function in Greenhouse Workers (Case Study: Ahmadabad Village of Yazd Province)." *Journal of Environmental Health and Sustainable Development* (2021).

Mohammadi, Danial, Mohammad Zare Zadeh, **Mohammad Javad Zare Sakhvidi**. "Short-term exposure to extreme temperature and risk of hospital admission due to cardiovascular diseases." *International Journal of Environmental Health Research* 31.3 (2021): 344-354.

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Kargar-Shouroki, Fatemeh, Mohammad Miri, **Mohammad Javad Zare Sakhvidi**, Seyedeh Zahra Hosseini Sangchi, and Farzan Madadzadeh. "Genotoxic effect of exposure to polycyclic aromatic hydrocarbons (PAHs) in asphalt workers." *EXCLI Journal* 20 (2021): 686-697.

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Aminaei, Fatemeh, **Mohammad Javad Zare Sakhvidi**, Hamideh Mihanpour, Mojtaba Moghaddassi, and Mahdiyeh Shafiezadeh Bafghi. "Retinal microvascular response to short-term exposure to particulate matters as an indicator of cardiovascular effects in work environments." *Journal of Environmental Health and Sustainable Development* 6, no. 1 (2021): 1211-1218.

Sepanlou, Sadaf G., Farid Najafi, Hossein Poustchi, Mahboubeh Parsaeian, Ali Ahmadi, Mohammadhossein Somi, Farhad Moradpour, **Mohammad Javad Zare Sakhvidi**, et al. "Prevalence, Awareness, Treatment, and Control of Hypertension in the PERSIAN Cohort Study: JNC7 Versus ACC/AHA Guidelines Short Title: The Impacts of Hypertension Definition in Iran. [preprint] (2021).

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Miri, Mohammad, Paula de Prado-Bert, Ahmad Alahabadi, Moslem Lari Najafi, Abolfazl Rad, Alireza Moslem, Hamideh Ebrahimi Aval, Mohammad Hassan Ehrampoush, Mariona Bustamante, **Mohammad Javad Zare Sakhvidi**, Tim Nawrot, Jordi Sunyer, Payam Dadvand. "**Association of greenspace exposure with telomere length in preschool children.**" Environmental Pollution 266 (2020): 115228.

Li, Mengmeng, Hang Dong, Boguang Wang, Wenlong Zhao, **Mohammad Javad Zare Sakhvidi**, Li Li, Guozhen Lin, and Jun Yang. "**Association between ambient ozone pollution and mortality from a spectrum of causes in Guangzhou, China.**" Science of The Total Environment (2020): 142110.

Farid Najafi, Shahin Soltani, Behzad Karami Matin, Ali Kazemi Karyani, Satar Rezaei, Moslem Soofi, Yahya Salimi, Mehdi Moradinazar, Mohammad Hajizadeh, Loghman Barzegar, Yahya Pasdar, Behrooz Hamzeh, Ali Akbar Haghdoost, Reza Malekzadeh, Hossein Poustchi, Sareh Eghtesad, Azim Nejatizadeh, Mahmood Moosazadeh, **Mohammad Javad Zare Sakhvidi**, Farahnaz Joukar, Seyed Mohammad Hashemi-Shahri, Alireza Vakilian, Ramin Niknam, Elnaz Faramarzi, Ghodrat Akhavan Akbari, Fershteh Ghorat, Arsalan Khaledifar, Davoud Vahabzadeh, Reza Homayounfar, Ali Reza Safarpour, Sayed Vahid Hosseini, Reza Rezvani & Seyyed Ahmad Hosseini. "**Socioeconomic-related inequalities in overweight and obesity: findings from the PERSIAN cohort study.**" BMC public health 20, no. 1 (2020): 1-13.

Hachesu, Vida Rezaei, Shadi Naderyan Fe'li, Fatemeh Kargar Shouroki, Amir Houshang Mehrparvar, Javad Zavar Reza, Mohammad Azimi, and **Mohammad Javad Zare Sakhvidi**. "**Carbon load in airway macrophages, DNA damage and lung function in taxi drivers exposed to traffic-related air pollution.**" Environmental Science and Pollution Research (2019): 1-9.

Momtaz, Seyed Mojtaba, Parvin Mehdipour, Payam Dadvand, Mohammad Hassan Ehrampoush, Mohammad Taghi Ghaneian, Mohammad Hassan Lotfi, Alireza Sarsangi Aliabad, Fereshte Molavi, and **Mohammad Javad Zare Sakhvidi**. "**Environmental and behavioral determinants affecting the association of airway macrophages carbon load with distance to major roads and traffic density.**" Chemosphere 217 (2019): 680-685.

Mohammadi, Danial, Elham Naghshineh, Alireza Sarsangi, and **Mohammad Javad Zare Sakhvidi**. "**Environmental extreme temperature and daily preterm birth in Sabzevar,**

Iran: a time-series analysis." *Environmental health and preventive medicine* 24, no. 1 (2019): 5.

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Miri, Mohammad, Milad Nazarzadeh, Ahmad Alahabadi, Mohammad Hassan Ehrampush, Abolfazl Rad, Mohammad Hassan Lotfi, Mohammad Hassan Sheikhha **Mohammad Javad Zare Sakhvidi**, Tim S Nawrot, and Payam Dadvand. "**Air pollution and telomere length in adults: A systematic review and meta-analysis of observational studies.**" *Environmental Pollution (In press (2018), DOI: 10.1016/j.envpol.2018.09.130*

Sakhvidi, Fariba Zare, **Mohammad Javad Zare Sakhvidi**, Amir Houshang Mehrparvar, and Angel M. Dzhambov. "**Environmental Noise Exposure and Neurodevelopmental and Mental Health Problems in Children: a Systematic Review.**" *Current environmental health reports* (2018): 1-10.

Halvani, Abolhasan, Shahrzad Sabzevari, Mehrdad Mostaghaci, Amir Houshang Mehrparvar, **Mohammad Javad Zare Sakhvidi**, and Raziyeh Soltani Gerdfaramarzi. "**Lung Function Capacities in Obstructive Sleep Apnea Syndrome.**" *Journal of Sleep Sciences* 2, no. 1-2 (2018): 1-6.

Feize Arefi M, **Mohammad Javad Zare Sakhvid**, Fatemeh Kargar, Mehrdad Mostaghaci, Ghasem Zare. "**Risk of dermatitis in an educational hospitals staffs in Yazd with Nordic Skin Questionnaire.** *Iran Occupational Health*. 2018; 14 (6) :18-25[Article in Persian]

Jafari, Fateme, Amin Salehi-Abargouei, **Mohammad Javad Zare Sakhvidi**, Ali Mohammad Ranjbar, Hossein Fallahzadeh, and Azadeh Nadjrazadeh. "**Comparison of the Effects of Green Tea and Melissa Officinalis on Weight and Blood Pressure in Welders: A Single-blind, Crossover Clinical Trial.**" *Journal of Nutrition and Food Security* 3, no. 3 (2018): 130-138.

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Mahmood Moosazadeh, and Hamid Hakimi, "**The PERSIAN cohort: Providing the evidence needed for healthcare reform.**" *Archives of Iranian medicine*(2017): 291-295.

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