# VIDA PAST, M.Sc.

## Environmental Health Engineer | Ph.D. Student in Health in Disasters and Emergencies | Researcher

Tehran, Iran

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## PROFESSIONAL PROFILE

Environmental health engineer and multidisciplinary researcher with approximately 10 years of experience in public health inspection, health statistics, food and drug oversight, and university academic administration. Currently pursuing a Ph.D. in Health in Disasters and Emergencies, with a primary research interest in climate change. Ranked second nationally in the Ph.D. entrance examination. Research experience includes solid waste management, water treatment, environmental pollution, systematic reviews and multi-criteria decision-making.

**RESEARCH IMPACT | Google Scholar, November 2026**

**220 citations ● h-index 11 ● i10-index 11 ● 14 indexed works ● 5 first-author records**

## PROFESSIONAL EXPERIENCE

### Academic Affairs Specialist, HSE Department | 2021–Present

University of Social Welfare and Rehabilitation Sciences, Tehran, Iran

• Coordinate academic affairs for M.Sc. students in Health, Safety and Environment (HSE) and act as liaison between the department and the university's educational affairs administration.

• Manage departmental website content and updates, including information on departmental activities.

• Coordinate research administration with university research units; upload records and follow up on approvals in the Pazhouhan research management system.

### Environmental Health Inspector / Health Statistics and Food & Drug Affairs | 2016–2021

Rey County Health and Treatment Network, Tehran University of Medical Sciences, Iran

• Conducted environmental health inspections and supported statistical reporting at network headquarters.

• Inspected factories and production facilities and performed sampling in the Food and Drug Unit.

• Participated in COVID-19 response activities and joint inspection patrols with industry, mining and trade authorities, municipal authorities and the district administration.

• Received a commendation from the district governor of the Rey area for pandemic-related service.

## HONORS & AWARDS

• Second national rank, Ph.D. entrance examination in Health in Disasters and Emergencies, Iran.

• Selected scientific paper, international congress on infection control and sterilization, medical materials and equipment, Shahid Beheshti University of Medical Sciences (2023).

• Commendation from the district governor of the Rey area for COVID-19 response activities (during 2016–2021 employment).

## EDUCATION

**Ph.D. Student, Health in Disasters and Emergencies | 2026–Present**

University of Social Welfare and Rehabilitation Sciences, Tehran | Second semester; primary research interest: climate change.

**M.Sc., Environmental Health Engineering | 2014–2017**

Tehran University of Medical Sciences, School of Public Health | GPA: 18/20; thesis grade: 19.40/20.

**B.Sc., Environmental Health Engineering | 2010–2012**

Tehran University of Medical Sciences | GPA: 15.68/20.

**Associate Degree, Environmental Health | 2007–2009**

Ardabil University of Medical Sciences | GPA: 16.64/20.

## MASTER'S THESIS

Evaluation of Construction and Demolition Waste Management Alternatives in Tehran and Selection of the Best Disposal Method Using Multi-Criteria Decision-Making Techniques (2017).

Supervisor: Kamiar Yaghmaeian. Advisors: Ramin Nabizadeh, Mohammad Hadi Dehghani and Mansour Momeni.

Methods: expert questionnaires, snowball sampling, data collection and multi-criteria analysis using Expert Choice.

## RESEARCH INTERESTS & SKILLS

Primary doctoral research interest: Climate change. Other research areas: environmental health, solid waste and construction waste management, water and wastewater treatment, air pollution, environmental epidemiology, infection control and public health.

• Scientific manuscript writing, proposal development, systematic review collaboration and advanced literature searching (PubMed, Scopus, Web of Science).

• Expert questionnaire design, snowball sampling, data collection, multi-criteria decision-making (AHP/FAHP), and interpretation of Expert Choice outputs.

• Advanced: Expert Choice. Good to advanced: Microsoft Word, Excel, PowerPoint and EndNote. Workshop training: SPSS, GIS and MATLAB.

• AI-assisted research: ChatGPT and Google Gemini; introductory familiarity with NotebookLM.

## RESEARCH PROJECTS

**Research Collaborator | Environmental Research Institute, Tehran University of Medical Sciences**

• Evaluation of construction and demolition waste management alternatives in Tehran using multi-criteria decision-making. Started June 2017; completed by February 2020 (certificate date).

• Investigation of volatile organic compounds from thirdhand cigarette and hookah smoke on different fabric fibers. Started August 2015; completed by February 2020 (certificate date).

## BOOK TRANSLATION & COMPILATION

Mahvi, A. H., Naderi, M., Past, V., & Ebrahimzadeh, G. (1401 SH / 2022–2023). Introduction to Chemistry and Microbiology of Water (With Glossary and Technical Terms). Khaniran Publications, Tehran, 1st ed., 95 pp. ISBN 978-622-7631-08-1. Role: co-translator and compiler; largely based on Twort's Water Supply, 6th ed.

## JOURNAL PUBLICATIONS

Bibliographic details based on the supplied Google Scholar records.

1. 2025 | Jamal et al. (Past, V., fourth author). Investigating the recent outbreak of dengue fever in Iran: a systematic review. The Egyptian Journal of Internal Medicine, 37(1), 1–21.

2. 2025 | Naderi et al. (Past, V., fourth author). The reactivation of the various types of viruses following COVID-19 infection: a systematic review. Future Virology, 20(3–4), 99–111.

3. 2024 | Past, V., Naderi, M., Saremi, G., Azizi, P., Javadzadeh, M., Shahveh, S., et al. The application of ozone gas in inactivation of surface and airborne SARS-CoV-2 in hospitals: a systematic review. Ozone: Science & Engineering, 46(6), 622–642.

4. 2024 | Naderi, M., Past, V., & Mahvi, A. H. Magnetic treatment as a suppressive method for CaCO3 scale deposition in hard waters in the presence of air bubbles. Desalination and Water Treatment, 318, 100249.

5. 2023 | Past, V., Yaghmaeian, K., Naderi, M., & Naderi, N. Management of the construction and demolition waste (CDW) and determination of the best disposal alternative by FAHP (Fuzzy Analytic Hierarchy Process): A case study of Tehran. Journal of the Air & Waste Management Association, 73(4), 271–284.

6. 2023 | Naderi, M., Past, V., Mahvi, A. H., Ebrahimzadeh, G., & Pourshahroudi, M. Electrochemical-magnetic method for the recovery of concentrated effluent from water membrane processes. Desalination and Water Treatment, 311, 34–44.

7. 2022 | Naderi, M., Ebrahimzadeh, G., Alimohammadi, M., & Past, V. Effect of ozone on the inactivation of indoor airborne viruses with the COVID-19 virus approach: a systematic review. Tehran University Medical Journal, 80(2), 82–90.

8. 2021 | Aghaei et al. (Past, V., sixth author). Long-term exposure to air pollution and risk of preterm birth and low birth weight in Tehran, Iran. Journal of Air Pollution and Health.

9. 2021 | Miranzadeh, M. B., Naderi, M., & Past, V. The interaction effect of magnetism on arsenic and iron ions in water. Desalination and Water Treatment, 213, 343–347.

10. 2017 | Naderi, M., Past, V., Miranzadeh, M. B., & Mahvi, A. H. Survey of the magnetic field effect on arsenic removal from drinking water with and without iron filings. Journal of Environmental Studies, 43(1), 45–57.

11. 2017 | Past, V., Yaghmaeian, K., Nabizadeh, R., Dehghani, M. H., Momeni, M., & Naderi, M. Selection of the best management method for construction and demolition waste disposal in Tehran with the view of sustainable development based on Analytical Hierarchy Process (AHP). Iranian Journal of Health and Environment, 10(2), 259–270.

12. 2016 | Miranzadeh, M. B., Naderi, M., Akbari, H., Mahvi, A., & Past, V. Adsorption of arsenic from aqueous solutions by iron filings and the effect of magnetic field. International Archives of Health Sciences, 3(2), 37–42.

## OTHER GOOGLE SCHOLAR RECORDS

Past, V., Mesdaghinia, A. R., & Naderi, M. Determination of toxic metals pollution using extraction (TCLP) in six brands of vermicompost produced from bio-wastes in Tehran.

Publication year and venue not shown in the supplied record.

The ozone hospital comprehensive review (2 citations) is listed under conference contributions rather than counted again as a journal article.

## CONFERENCE CONTRIBUTIONS & PRESENTATIONS

2023 | Past, V., & Naderi, M. The Applications of Ozone Gas in Hospitals for Disinfecting and Sterilizing the Air, Surfaces and Equipment Contaminated with the COVID-19 Virus: A Comprehensive Review. International congress on infection control and sterilization, medical materials and equipment; selected paper, poster.

2022 | Naderi, M., Past, V., Mahvi, A. H., Ebrahimzadeh, G., Mesdaghinia, A., & Naddafi, K. Study of magneto-hydrodynamic and magneto-phoretic forces in the mechanical trajectory control of magnetic impurities (hardness and salinity agents) in the electrochemical-magnetic system. 6th International and 25th National Conference on Environmental Health, Ahvaz, December 20–22.

2020 | Naderi, M., Mahvi, A. H., & Past, V. Effect of external magnetic fields on calcium carbonate scale deposition in water in the presence of air bubbles. Poster, 22nd National Environmental Health Conference (virtual), August 2020.

2017 | Past, V., Yaghmaeian, K., Nabizadeh, R., Dehghani, M. H., Momeni, M., & Naderi, M. Selection of the Best Management Method for Construction and Demolition Waste Disposal in Tehran with the View of Sustainable Development Based on Analytical Hierarchy Process (AHP). 2nd International and 20th National Conference on Environmental Health and Sustainable Development, Yazd, November 28–30, p. 287.

2017 | Naderi, M., Miranzadeh, M. B., Past, V., & Ebrahimzadeh, G. An Explanation of the Effect of Magnetism on the Interaction of Arsenic and Iron ions in water by Laplace-Lorentz Force. Same conference, Yazd, November 28–30, p. 42.

2008 | Optimization of the Wastewater Treatment Process in Khalkhal City. Second author; poster, First Student Scientific Research Congress of Ardabil University of Medical Sciences and Second Student Research Congress of the Northern Medical Universities Network, Ardabil, August 2008.

## PROFESSIONAL TRAINING & CERTIFICATES

2016 | Introductory SPSS (16 hours) – Student Scientific Research Center, TUMS.

2016 | EndNote (5 hours) – Student Scientific Research Center, TUMS.

2016 | Waste Classification and Labeling (5 hours) – Environmental Research Institute, TUMS.

2015 | Epidemiological Methods and Statistical Analysis in Environmental Studies (21 hours) – Environmental Research Institute, TUMS.

2015 | How to Write a Scientific Paper (10 hours) – Environmental Research Institute, TUMS.

2015 | GIS Applications in Health Studies: Analysis and Modeling (3 days) – Environmental Research Institute, TUMS.

2014 | Programming Intelligent Optimization Algorithms, Fuzzy Systems and Artificial Neural Networks in MATLAB (24 hours) – Environmental Research Institute, TUMS.

2011 | HSE Management Systems – Internal Audit (24 hours) – TÜV Rheinland Academy, Tehran, December 14–16; certificate HSE-A-11/242 36.

**Documented training duration: 105 hours, plus a three-day GIS workshop.**