

Mostafa Mehrdad

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RESEARCH INTRESTS

- Waste Management
- Air Pollution Control
- Climate Change
- Greenhouse Gases
- Numerical Modeling
- Soft Computing

Academic Qualifications

2016- 2018	M.Sc. Civil and Environmental Engineering Shahid Beheshti University, Tehran Masters Thesis: "Development of AI based models to Predict Methane Emission from Landfills" Supervisor: Dr. Maryam Abbasi GPA: 17.87/20
2012 – 2016	B.Sc. Civil Engineering University of Guilan, Guilan GPA: 15.39/20
2005-2012	Secondary School & High School National Organization for Development of Exceptional Talents, Guilan

Professional Profile

- Highly developed research qualitative, programming and analytical skills with a strong capacity to conduct independent research
- Demonstrated ability to develop goals, objectives and implement strategies through lesson planning and teaching experience
- Working knowledge of different computer programs and software
- Proficient in English (PTE Academic (Overall: 72; Listening= 66, Reading= 76, Speaking= 87, Writing= 67) equivalent to Score 7 in IELTS or 105 in TOEFL IBT)

HONORS & AWARDS

- **Top 3 in M.Sc. among 20 membership** (2018)
Shahid Beheshti University, Tehran, Iran
- **Top 15% in B.Sc. among 110 membership** (2016)
University of Guilan, Guilan, Iran

Publications

- **2021- Prediction of methane emission from landfills using machine learning models**
Mehrdad, S, Abbasi, M., Yeganeh, B., Kamalan, H.
Environmental Progress & Sustainable Energy , <https://doi.org/10.1002/ep.13629>
- **2018- Investigating the Effect of Methane Production Factors on Sanitary Landfill Biogas Emissions 2018 (Case Study of Aradkooch Sanitary Landfill, Tehran)**
Mehrdad, S., Alighardashi, A., Abbasi, M., Kamalan, H.
The 4th International Conference on New Findings in Agricultural Science,Natural Resources and the Environment, Tehran, Iran.(Persian)
- **2018- Prediction of methane emission using compatible neural-fuzzy inference system (Case Study of Aradkooch Sanitary Landfill, Tehran)**
Mehrdad, S., Alighardashi, A., Abbasi, M., Kamalan, H.
The 4th International Conference on New Findings in Agricultural Science,Natural Resources and the Environment, Tehran, Iran.(Persian)
- **2018- Predicting Methane Emission Rates Using LandGem and TNO, SWANA Models (Case Study of Aradkooch Sanitary Landfill, Tehran)**
Mehrdad, S., Alighardashi, A., Abbasi, M., Kamalan, H.
The 6th International Conference on Environmental Engineering and Natural Resource, Tehran, Iran. (Persian)
- **2018- Evaluation of Existing Methods for Estimating Methane Gas**
Mehrdad, S., Alighardashi, A., Abbasi, M., Kamalan, H.
The 6th International Conference on Environmental Engineering and Natural Resource, Tehran, Iran. (Persian)
- **2018- Indoor Environments Opportunity to Breathe or Threaten?**
Mehrdad, S., Javadi, S.
Senobar Promotional Magazine, 5(9), <https://senobarmag.com/> (Persian)
- **2017- Investigation of Water Consumption Reduction Methods in Evaporative Coolers**
Mehrdad, S., Tizghadam, M., Javadi, S.
National Conference on Water loss and Consumption Management, Tehran, Iran. (Persian)
- **2017- Predicting Methane Application of Wastewater Treatment Plant for Industrial 2017 (Case Study of Shams Abad Industrial Town in Tehran)**
Mehrdad, S., Tizghadam, M., Javadi, S.
National Conference on Water loss and Consumption Management, Tehran, Iran. (Persian)

Academic Employment – Teaching and Research

09/2020 – now **Scientific Expert**
Regional Center of Basel and Stockholm Conventions, Department of Environment Iran, Tehran

Responsibilities

- Coordination with member and non-member countries in order to carry out projects and research aiming for environmentally sound management of wastes
- Editing and enhancing the proposals which are sent by different universities and research centers
- Updating website

08/2019 – now **Research Assistant to Dr. Maryam Abbasi and Dr.Bijan Yeganeh**
Shahid Beheshti University, Tehran

Responsibilities

- Writing proposals to sent to different grant opportunities related to Implementation of environmentally sound management of Basel Convention included waste types
- Editing and translating published guidelines published by Basel Convention Secretary
- Preparing different presentations for different groups of participants

08/2019 – 05/2020 **Teaching Assistant of Air pollution Fundamentals course**

Shahid Beheshti University, Tehran

Responsibilities

- Teaching Fundamentals of Air Pollution and solving exercises for Master students

09/2017 – 01/2018 **Executive and Scientific Committee Member**

National Conference on Water loss and Consumption Management, Shahid Beheshti University, Tehran

Responsibilities

- Responsible for the Planning and Coordination of the Executive and Scientific Committee Units

10/2014 – 08/2016 **Scientific Committee of Civil Engineering Member**

University of Guilan, Guilan

Responsibilities

- Planning for different exhibitions and introduction ceremonies

10/2013 – 06/2014 **Teaching Assistant of Statics course**

University of Guilan, Guilan

Responsibilities

- Teaching Fundamentals of Statics and solving exercises for Bachelor students

Employment History – General

07/2013 – 06/2014 **Intern Civil Engineer**

Parsa Soleh Steel Structures Engineering CO., Guilan, Iran

SELECTED COURSES

- Air Pollution Engineering Principals (Grade 19.5/20 , Ranked First),
- RS and GIS Application in Civil Engineering (Grade: 18.1/20, ranked fifth),
- Engineering Principals and Waste Management (Grade: 16.5/20)

PROJECTS

2018 Modeling of Methane Emissions from Sanitary Landfill by Support Vector Machine
Using R (programming language)

2017 2D Modeling Transmission and Emission of Pollutants
Using MATLAB

2016 Modeling and Optimizing Water Distribution Pipes in a Selected Area of Tehran
Using EPANET

PROFESSIONAL SKILLS

Programming Languages	R programming Language, MATLAB, JAVA, Python
Water/Waste Water and Air pollution Distribution Software	AERMOD, WaterCAD, WaterGEMS, SewerGEMS, EPANET, ArcGIS
Structural Design Softwares	AutoCAD, ETABS, SAP2000
Others	ArcGIS, MS Office

Languages

Persian	Native
English	Professional
	PTE Academic (Overall: 72; Listening= 66, Reading= 76, Speaking= 87, Writing= 67)
Spanish	elementary

Interests

Playing basketball, Hill climbing and camping, Watching movies, Listening to music

Referees

- **Dr. Maryam Abbasi**
Assistant professor, Faculty of Water and Environmental Engineering, Department of Environmental Engineering, Shahid Beheshti University , Phone: +98 (21) 73932473 , Email: mary_abbasi@sbu.ac.ir
- **Dr. Bijan Yeganeh**
Assistant professor, Faculty of Water and Environmental Engineering, Department of Environmental Engineering, Shahid Beheshti University, Phone: +98 (21) 73932461 , Email: b_yeganeh@sbu.ac.ir
- **Dr. Mir Ahmad Lashteh Neshaei**
Assistant professor, Faculty of Engineering, Department of Civil Engineering, University of Guilan , Email: maln@guilan.ac.ir