

Farzad Piadeh



Date of Birth: March 22, 1988

Nationality: Iranian

Cell-Phone: +98 (915)11-31-286

Email Address: farzadpe@aut.ac.ir / f.piadeh@moe.gov.ir

LinkedIn Address: <https://ir.linkedin.com/in/farzad-piadeh-b9313450>

Orcid ID: 0000-0002-4958-6968

Address:

No. 508, 5th floor, Niyayesh st. Valiasr Ave., Tehran, Iran – Ministry of Energy.

Research Interests

- Sustainability and resiliency in water and wastewater infrastructures
 - MCDM in water and wastewater Issues
 - Water sensitive city
-

Education

2011-2013 **[Amirkabir University of Technology \(Tehran Polytechnic\)](#), Tehran, Iran.**

Master of Science, Civil & Environmental Engineering

Thesis title: “Techno-economic & environmental assessment of new recycle/reuse methods in treated wastewater of industrial zones

Supervisor: Prof., [M.R. Alavi moghaddam](#)

Thesis adviser: Environmental Manager of Iran Small Industries & Industrial Parks Organization, S. Mardan

Sponsors: 1) Amirkabir University of Technology Grant

2) Shokuhieh Qom Industrial Estates’ research contract

2006-2011 **[Ferdowsi University of Mashhad](#), Mashhad, Iran.**

Bachelor of Science, Civil engineering.

1999-2006 **[National Organization for Development of Exceptional Talents*](#), Mashhad, Iran.**

Mathematics & Physics Diploma.

Skills

Programming Languages: FORTRAN

Specialized Software: SPSS, Expert choice, Super choice, Auto CAD, SAP, SAFE

Desktop Publishing Tools: MS Word, Excel, Power point, Visio, Project and Endnote

Design Tools: Adobe Photoshop, Corel draw, Adobe Premiere, Adobe Flash

Foreign Languages: English: Fluent: **IELTS: 6.5** (Listening 7, Reading 6.5, Writing 6.5, Speaking 6.5)

* Exceptional Talent Schools are special centers of education, directed by [National Organization for Development of Exceptional Talents](#), Select the top 5% talented students by taking comprehensive nationwide entrance examination

Major Publications

1. “Reliability Assessment for Hybrid Systems of Advanced Treatment Units of Industrial Wastewater Reuse Using Combined Event Tree and Fuzzy Fault Tree Analyses”, **Piadeh F.**, Ahmadi M., Behzadian K., *Journal of Cleaner Production*, 2018; 201. [English]
2. “Assessment of sustainability of a hybrid of advanced treatment technologies for recycling industrial wastewater in developing countries: Case study of Iranian industrial parks”, **Piadeh F.**, Alavi Moghaddam M.R., Mardan S., *Journal of Cleaner Production*, 2018; 170: 1136-1150. [English]
3. “Present situation of wastewater treatment in the Iranian industrial estates: Recycle and reuse as a solution for achieving goals of eco-industrial parks”, **Piadeh F.**, Alavi Moghaddam M.R., Mardan S., *Resources, Conservation and Recycling*, 2014; 92: 172-178. [English]
4. “Creating functional group alternatives towards integrated industrial wastewater recycling system: Case study of Toos Industrial Park (Iran)”, Naghed R., Alavi Moghaddam M.R., **Piadeh F.**, *Journal of Cleaner Production*, 2020, 23.464. [English]
5. “Evaluation of physical, chemical and biological causes for taste, odor and color in reservoirs and treatment plants”, Shokouhian M., **Piadeh F.**, *6th International Conference on Environmental Science and Technology*, Texas, USA, 2012. [English, Poster presentation].
6. “Corrosion in the auxiliary cooling system of power plants and providing suitable solutions for the problems”, Shokouhian M., **Piadeh F.**, *6th International Conference on Environmental Science and Technology*, Texas, USA, 2012. [English, Poster presentation].
7. “Evaluation of algae removal potential from the drinking waters using potassium permanganate”, Shokouhian M., **Piadeh F.**, *6th International Conference on Environmental Science and Technology*, Texas, USA, 2012. [English, Poster presentation].
8. “Environmental engineering: Theory to implementation”, Shokouhian M., **Piadeh F.**, 1st Ed., Imam Reza International University, Mashhad, Iran, 2017. IR ISBN: 978-600-565-60-0 [Persian]

Major Working Experiences

- **Ministry of Energy**, Sustainability and planning specialist in Center for Social Affair in Water and Energy (Jan. 2019-Now)
(Project manager of “Water sensitive cities”, “conflict management of Zaynderood River”, “Integrated participation and empowerment of women in water and energy crisis” and “Publicizing policy data” projects)
- **Ministry of Energy**, Secretary of sustainable development committee and member of national SDG 6 and SDG 7 committees (Jun. 2018- Jun. 2019)
(Co-author of first national methodology for implementing SDGs in Iran, Participant in projects named “Water scarcity adaptation” and “Implementing SDGs in Iran”)
- **Tehran province water and wastewater Co.**, Specialist in sustainability office (March. 2016- Jan.2019).
(Co-author of first sent national concept note for green climate fund, Project manager of first pilot of green management in ministry of energy companies)
- **Development & Counseling Group of Sustainable Building Co.**, CEO (Nov. 2014 – Jul. 2016).
(Director and Criteria organizer of 6 rating systems, Head of water & wastewater department, Auditor of 25 projects)

Major Academic Experiences

- **Official Water, Sanitation and Hygiene (WASH) Operational Coordination Trainer of Trainers**
National focal point for training the trainers in WASH national and sub-national levels / UNICEF.
- **Thesis adviser** for 7 M.Sc. students of “Amirkabir university of technology” and “Iran University of Science and Technology”, (2016 - now)
Supervisors: Prof. [M.R. Alavi moghaddam](#), Assistant Prof. [M. Hasani Zonoozi](#)
(Responsible for consulting and teaching MCDM issues in water and wastewater subjects)
- **Research assistant** of assistant prof. [R. Maknoon](#)
Research contract with Tehran sewage Co., (2016-2017)
Investigation, feasibility study, implementation and monitoring of principles of sustainable development indices in Tehran Province Water and Wastewater Company in order to obtain the goals of sustainable development.
- **Research assistant** of associated prof. [M. Shokouhian](#)
Industrial internship with Khorasan Razavi regional water company- Ministry of Energy, (2009)
Investigation on odor and color producers in water treatment plants.
- **Research assistant** of associated prof. [M. Shokouhian](#)
Industrial internship with Khorasan Razavi regional electric company- Ministry of Energy, (2008)
Environmental investigation on corrosion of power plant cooling towers.
- **Teacher assistant**, Ferdowsi University of Mashhad, (Fall 2014-19)
Water and Wastewater treatment, M.Sc. course, associated prof. [M. Shokouhian](#).
(Responsible for teaching, consulting, lecture directing, project defining, preparing exam problem sets and scoring)
- **Teacher assistant**, Ferdowsi University of Mashhad, (Winter 2013-19)
Fundamental of wastewater treatment, B.Sc. course, associated prof. [M. Shokouhian](#).
(Responsible for teaching, consulting, lecture directing, project defining, preparing exam problem sets and scoring)
- **Teacher assistant**, Ferdowsi University of Mashhad, (Winter 2013-19)
Environmental engineering, B.Sc. course, associated prof. [M. Shokouhian](#).
(Responsible for teaching, consulting, lecture directing, project defining, preparing exam problem sets and scoring)
- **Trainer**, “Sustainability assessment of wastewater recycling systems” course
(For Municipality of Tehran, 2020)
- **Trainer**, “Data analysis for publicizing political data” course
(For publicizing political data committee of Ministry of energy in 2019)
- **Trainer**, “Sustainable development: Theory to implementation” course (TOT type)
(For Municipality of Tehran in 2019, sustainable development committee of Ministry of energy in 2018 and Ministry of Sport and Youth in 2018)
- **Trainer**, “Water as a multidisciplinary wicked problem” course
(For ministry of Sport and Youth in 2018)
- **Trainer**, “Implementing sustainable development goals” workshop (TOT type)
(For sustainable development committee of Ministry of energy in 2018 and SDGs’ sixth and seventh committees of Ministry of energy in 2017)
- **Speaker** of “Future of sustainable construction in Iran: water and wastewater” workshop
(In 9th National congress on civil engineering in 2016)

Major Honors & Distinctions

- Ranked in the **top 1%** among more than 30,000 participants in the Nationwide Civil Engineering Graduate Entrance Exam (May 2011)
- **Scientific efforts certification** confirmed by Iranian [Vice-president of science and technology](#) (2010).
- **First ranked** in president of scientific student society certified by minister of science, research and technology (2010).
- Ranked in the **top 1%** among more than 350,000 participants in the Nationwide Undergraduate Entrance Exam of University in Mathematics & physics Discipline (August, 2006).
- Seven years of "[Iran's Ministry of Science](#)" scholarship for B.Sc. and M.Sc. education, and seven years of "[Iran's vice-president of science and technology](#)" scholarship for high and middle school educational stages.

Main Passed courses in the major field

- **Master courses:**
Environmental planning & management ([Dr. Maknoon](#)), Environmental impact of water resources development ([Dr. Maknoon](#)), Environmental impact assessment ([Dr. Maknoon](#)), Wastewater treatment, Water treatment, Advanced engineering mathematics.
- **Related bachelor courses (first ranked):**
Fundamental of wastewater treatment, Environmental engineering, Computer programming, Engineering Economics.
- **National and International workshops:**
 - ✓ "Urban Resilience and Habitat Improvement", UN-HABITAT and ECO, Tehran, Iran ([13-16 Nov., 2018](#))
 - ✓ "WASH operational coordination and Leadership/coordination", UNICEF, Amman, Jordan ([15-25 Jul., 2018](#))
 - ✓ "Toward a sustainability-water and wastewater", UN-HABITAT, Tehran, Iran ([7 Mar., 2018](#))
 - ✓ "Master class of finance & water", Netherland water partnership, Tehran, Iran (25 Feb., 2018)
 - ✓ "Resiliency in urban's water and wastewater infrastructures", UN-HABITAT, Tehran, Iran ([16 Nov., 2017](#))
- **International voluntary courses (online by [Coursera](#)):**
 - ✓ "Model Thinking", University of Michigan.
 - ✓ "Public-Private Partnerships: How can PPPs help deliver better services?", The World Bank Group.
 - ✓ "Global Environmental Management", Technical University of Denmark (DTU).
 - ✓ "Water Supply and Sanitation Policy in Developing Countries", University of Manchester.
 - ✓ "Questionnaire Design for Social Surveys", University of Michigan.
 - ✓ "Learning for Sustainability: Developing a personal ethic", University of Edinburgh.
 - ✓ "Introduction to Environmental Law and Policy", University of North Carolina at Chapel Hill.
 - ✓ "The age of sustainable development", Colombia University.

Referees

1. [Mohammad Reza Alavi Moghaddam](#), Prof.
Department of Civil and Environmental Engineering, Amirkabir University of Technology, Tehran, Iran
Email: alavi@aut.ac.ir, alavim@yahoo.com, Tel.: +98-21-64543008.
2. [Mohammad Shokuhian](#), Associated Prof.
Department of Civil Engineering, Ferdowsi University of Mashhad, Mashhad, Iran
Email: mshokouhian222@yahoo.com; mshokouhian@um.ac.ir, Tel.: +98-51-38843102.
3. [Maryam Hasani Zonoozi](#), Assisitant Prof.
Department of Civil Engineering, Iran University of Science and Technology, Tehran, Iran
Email: mhzonoozi@iust.ac.ir; Tel.: +98-21-73228194.

*(Please click on hyperlinked sections in the text for related internet references)
(Other references furnished on request)*