



## Sahar Azarkamand

### Contact info

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### Education

1. **Ph.D. in Sustainability.** Universitat Politècnica de Catalunya. Barcelona, Spain. Since September 2018 (Thesis: Development of a standardized tool to calculate Carbon Footprint in Ports). 2021
2. **Ph.D. in Environmental management.** Islamic Azad University, Science and Research Branch, Tehran, Iran. (Thesis: Evaluation of Green Supply Chain Management in the petrochemical industry by the GreenScor model). 2013
3. **Master in Environmental management.** Islamic Azad University, Science and Research Branch, Tehran, Iran. (Thesis: Implementation of Green Productivity Management in the non-governmental sector, case study: Iran Aseman Airline). 2006
4. **B.Sc. in Natural resources engineering.** Islamic Azad University, Tehran North Branch, Iran. (Thesis: Environmental Impact Assessment of Khansar Dam). 2003

### Work Experience

1. **Postdoctoral Researcher.** UNESCO Chair in Life Cycle and Climate Change ESCI-UPF. Form March 2023.
2. **Researcher** at the **University of Vic** (Life Cycle Assessment and Sustainability Assessment). From November 2021
3. **Gave a practical class** on introducing a tool to calculate Carbon Footprint in Ports. Subject: Canvi Climàtic i Contaminació Ambiental. Industrial Engineering Master Degree, May 2021 and Subject: Environmental Management Systems. Industrial Engineering Master Degree. **Universitat Politècnica de Catalunya**, Barcelona, Spain. October 2019.
4. **Thesis supervisor** in **Islamic Azad University**, Najafabad Branch, Isfahan, Iran. Supervising two master thesis From October 2017 to September 2018:  
Investigating the management of green supply chain in iron smelting industry and its effect on green performance development, Case study of Isfahan Steel Company, M.Sc thesis, by Niloufar, shams. Summer 2018.  
Identifying the Key Factors of Green Supply Chain Success with Structural Interpretative Modelling Approach, Case Study: Mobarakeh Steel Co. Isfahan, M.Sc thesis, by Maryam Nasri Nasrabadi. Summer 2018.
5. **Environmental Impact Assessment expert** in Panganavaran Environmental Engineering Consultant Company. From June 2016 to September 2018.
6. **Environmental Impact Assessment expert** in RahanSaze Engineering Consultant Company. From December 2015 to June 2018.
7. **Environmental Impact Assessment expert and project manager** in Puyandegan Mohite Zist (PMZ) Environmental Engineering Consultant Company. From May 2009 to July 2014.
8. Cooperation with Abadgaranepakdad Company in **Environmental Impact Assessment** projects in 2010.
9. Cooperation with Arya Zist Sanat Environmental Engineering Consultant Company in **Environmental Impact Assessment** projects in 2009.
10. Cooperation with zist Sepehr Environmental Engineering Consultant Company in **Environmental Impact Assessment** project in 2009.
11. **Environmental expert in Waste Biotechnology Research Group** in Alzahra University (Jahad Daneshgahi Research Center) from February 2007 to June 2009.

### Publication (Books)

1. Urban Environmental Management Strategies, Wetland Press, 2014

2. Translation of Green Supply Chain Management, Wetland press, 2016

### **Publication (Papers)**

1. Insights on the Environmental Management System of the European port sector, Science of the Total Environment (STOTEN 139407), September 2021, <https://doi.org/10.1016/j.scitotenv.2021.150550>,
2. Development of a standardized tool to calculate the carbon footprint in ports, Journal of Maritime Research, 2020, Vol XVII. No. III (2020) pp 74–80.
3. Climate Change—Challenges and Response Options for the Port Sector, Sustainability Journal, August 2020. <https://doi.org/10.3390/su12176941>
4. Climate Change and Carbon Footprint Initiatives. Scholarly Community Encyclopedia. June 2020
5. Review of initiatives and methodologies to reduce CO<sub>2</sub> emissions and Climate Change effects in ports. International Journal of Environmental Research and Public Health. May 2020. <https://doi.org/10.3390/ijerph17113858>
6. Calculating the Carbon Footprint in ports by using a standardized tool. Science of the Total Environment (STOTEN 139407). May 2020. <https://doi.org/10.1016/j.scitotenv.2020.139407>
7. Identifying the Key Factors of Green Supply Chain Success with Structural Interpretative Modelling Approach, Case Study: Mobarakeh Steel Co. Isfahan. Bimonthly journal of Applied Studies in Management and Development Sciences (Iran), Volume 3, 2019. (in Persian language)
8. Evaluation of green supply chain management in petrochemical industry Case study: Shazand petrochemical complex. Advances in an environmental biology journal. November 2013
9. Petrochemical Supply Chain's share in the emission of greenhouse gases, case study: Shazand petrochemical complex. American journal of environmental science. August 2013. doi:10.3844/ajessp.2013.334.342
10. Green Productivity Management in Non-Governmental Sector (Case Study for Iran Aseman Airline Company). Journal of Environmental Science and Technology (JEST). 2009. [http://jest.srbiau.ac.ir/article\\_161\\_en.html](http://jest.srbiau.ac.ir/article_161_en.html)
11. Implementation of Green Productivity Management in Aseman Airline Company. International Journal of Environmental Science and Technology, Volume 4 (1). 2007. <https://doi.org/10.1007/BF03325973>

### **Conferences (Paper):**

1. Calculating Carbon Footprint in ports through a new Standard Tool: case study applications. 17<sup>th</sup> International Conference on Environmental Science and Technology. Athens, Greece, September 2021.
2. Maritime Transportation and its role in Greenhouse Gas emissions in the world. Western Asian Development Institute and Environmental Scientific Association of Tehran University. January 2021.
3. Development of a standardized tool to calculate Carbon Footprint in ports. Accepted to present in 8<sup>th</sup> international conference on Maritime Transport, Barcelona, Spain. September 2020.
4. Environmental risk assessment of oil and gas pipeline, case study: Foroozan oil field. Sixth national world environmental day congress, Tehran University, Iran. 2012
5. Feasibility study of usages bio compost and vermicomposting units in Yazd rural parts. Second environmental management congress, Tehran University, Iran. 2007
6. Feasibility study of usages bio compost units in Isfahan rural parts. Third waste management congress, Iran. 2007
7. Survey of hygienic qualification of solid waste after composting and suggesting a suitable composting method base for different parts of Iran. Clean earth and environment regional congress. Imam Khomeini port, Iran. 2007
8. Survey of environmental education requirements in the field of waste management in Isfahan rural parts. Rural environment sustainable development congress, Department of Environmental of Iran. 2007

### **Training and Certificates**

1. Online Participation in “Academic writing for the fields of Biosciences, Experimental Sciences and Technology”, University of Vic, 16<sup>th</sup> march 2022.

2. Certification of attendance in “Introduction of Life Cycle Assessment (LCA) and Open LCA” course. Held by AUT’s Office of Sustainability at Amirkabir University of Technology (Tehran Polytechnic) Tehran-Iran, 10th & 11th of July 2021.
3. Certification of attendance in “Arc GIS Software introductory training” workshop. Organized by Institute of Boomshenasan Tose Paidar Wadi and the Environmental Scientific Association of the University of Tehran. March 2021.
4. Certification of attendance in Responsible Conduct in Research and Innovation course. Universidad Politécnic de Cataluña. October 2020 to January 2021
5. Certification of attendance in Mendeley advance course. Universidad Politécnic de Cataluña. January 2021
6. Certification of attendance in Fundamentals of Air Pollution and Clean Air Law. Organized by Institute of Boomshenasan Tose Paidar Wadi and the Environmental Scientific Association of the University of Tehran. January 2021.
7. Online Participation in Implementing Sustainability at Universities Webinar. The Baltic University Programme (BUP). Finland. December 2020.
8. Certification of participating in Climate Reality Leaders Corps Training. Organized by Climate Reality Project. August 2020
9. Certificate of achievement, Young Learner English Teacher Training Course. Mehrdad Language Academy. Tehran, Iran. 2017
10. Teaching qualification certificate. Payam Nour University. Iran. 2013
11. Certification of participating in the sixth national environmental day congress. University of Tehran, Tehran, Iran. 2012
12. Certification of participating in third national waste management congress. Tehran municipality, Iran. 2006
13. Certification of participating in Environmental Law Workshop. Islamic Azad University, Science and Research Branch, Tehran, Iran. 2005

#### **Core Skills**

1. Environmental Impact Assessment by Leopold matrix method, Indexing method and AHP (Analytical Hierarchical Process) method by using Expert Choice software
2. Life Cycle Assessment
3. Carbon Footprint Calculation
4. Environmental Risk Assessment by PHA (Preliminary Hazard Analysis) method
5. Evaluation of Environmental Management and Green Supply Chain Management by Greenscor model

#### **Language**

1. Farsi (Native)
2. English (Upper-intermediate) – 6.5 general score in general IELTS exams in 2016 and 2017, 6.5 general score in academic IELTS exam in 2012
3. Spanish (Intermediate- B2)