

## Personal details:

**Name:** Ali Shahbazi  
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**Date of Birth:** September 21<sup>th</sup> 1985  
**City of Birth:** Nahavand, Iran  
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## Educational

- **Ph.D. of Environmental Science and Engineering** **2020-on going**  
University of Tehran
  - GPA: 19.55/20
  - Thesis: Municipal Solid Waste Management Planning Using Dynamic System Modeling: A Case Study Karaj City
  - Supervisor: Assoc.Prof. Mazaher Moeinaddini; Prof. Mohammad Ali Abdoli
  - Advisor: Assist.Prof. Mahnaz Hosseinzadeh; Prof. Nematollah Jaafarzadeh Haghhighifard
- **Master of Natural Resources Engineering - Environmental science** **2009-2012**  
Isfahan University of Technology, Isfahan, Iran
  - GPA: 17.66/20
  - Thesis: Impact assessment of agricultural activities on heavy metal accumulation in soil in the province of Hamedan
  - Supervisor: Assoc.Prof. Alireza Soffianian
  - Advisor: Assoc.Prof. Dr. Nooroallah Mirghafari
- **Bachelor of Natural Resources Engineering - Environmental science** **2004-2008**  
Allameh Mohadeth Nouri, Mazandaran, Iran
  - GPA: 16.42/20
  - B.Sc. Project: Land use planning of Kojor watershed (Capabilities and challenges)
  - Supervisor : Dr. Rasulali Ashrafipour

## Honors and Awards

- **Ranked top 5%** among all undergraduate students, Environmental Science at Allameh Mohadeth Nouri, Mazandaran, Iran, 2004-2008.
- **Ranked 4** among all graduate students Environmental Science at Isfahan University of Technology, 2009-2012.
- Baharn Institute of Higher Education's **top researcher** in the field of Research Projects, 2015.
- **Receive a scholarship** of the Ministry of Science, Research and Technology of Iran; 2020-2024

## Fields of Interest

- Solid waste management
- Soil pollution
- Wastewater treatment
- Environmental pollution

## Work Experiences

- 2020-Now; Consultant of Waste Management Organization of Karaj Municipality
- 2016- Now; Managing Director of Vieira Company, with the accreditation of the Trusted Laboratory of the Iranian Environmental Protection Agency.
- 2016- 2020; Research Director, Baharn Institute of Higher Education, Gorgan, Iran.
- 2014-2020; Director of the Department of Environment Sciences, Baharn Institute of Higher Education, Gorgan, Iran.
- 2012-2020; Faculty member, Department of Environmental Sciences, Baharan Institute of Higher Education, Gorgan, Iran.

## Publications and Presentations

### Journal Papers

- Bahman Shams Esfandabad, Somayeh Heydari, Mohsen Malah, **Ali Ahahbazi**, Zeynab Asadi, Mohammad Kaboli, 2022. Identification of birds in Karaj city with emphasis on the management of harmful species, *Journal of Animal Environmental*. (In Press) (in Persian)
- **Ali Shahbazi**, Ali Mohammad Hasani, Hasan Rezaee, Ali Ghaemi. 2021. Investigating the qualitative and quantitative characteristics of construction debris in the city Gorgan and feasibility of their recycling, *Environment and Development*, 11(22), 5-15. (in Persian)
- **Ali Shahbazi**, Alireza Soffianian, Norolah Mirghaffari. 2020. Investigation of the effects of agricultural activities on the accumulation of cadmium, cobalt and chromium in soil. *Journal of Environmental Science and Technology*, 22(8), 249-260. (in Persian)
- Mahdi Sadeghi; Noshin Noroozi; **Ali Shahbazi**. 2020. Study of Changes in Water Quality Index of Ziarat River at 2018 in Gorgan. *Journal of Research in Environmental Health*, 6(3), 250-259. (in Persian)
- Hamidreza Kamyab, Atefeh Bagheri, **Ali Shahbazi**. 2020. Applying Electrical Circuit Theory to Optimizing Habitat Corridors for Panthera Pardus Saxicolor sp. in Golestan National Park. *Environmental Researches*, 10(20), 209-218. (in Persian)
- Elham Salmanian, Hassan Rezaei, **Ali Shahbazi**. 2019. Removal of bromocresol green from aqueous solution using Chitin, *Journal of Environmental Resources Research*, 7(2), 79-86.
- Sarah Jorjani, **Ali Shahbazi**, Kazem Babaei ziyarati, Mahdi Sadeghi. 2019. Studying of Different Salinity Concentrations on the Growth Microalgae «Chlorella sp» from Rice Fields Golestan Province. *Journal of Research in Environmental Health*, 4(4), 283-290. (in Persian)
- **Ali Shahbazi**, AliReza Soffianian, Norolah Mirghaffari, Hassan Rezaei. 2018. Impact of agricultural activities on accumulation of Cadmium, Cobalt, Chromium, Copper, Nickel and Lead in soil of Hamedan province, *Environmental Resources Research* 6 (1), 79-87, 6(1), 79-87.
- Milad Kabir, **Ali Shahbazi**, Zohreah Mazaheri Kouhanestani, Farzad Rouhani Shahraki. 2017. Spatial-temporal variability in water quality in Ghareh-chai River, Golestan Province, Iran, *AACL Bioflux*. 10 (2), 353-364.
- **Ali Shahbazi**, AliReza Soffianian, Norolah Mirghaffari. 2107. Impact assessment of agricultural activities on heavy metal accumulation in soil, *AES Bioflux*, 2017. 9 (2), 99-108.
- Asieh Razavi, Hassan Rezaei. **Ali Shahbazi**. 2017. Removal of Congo red from aqueous solutions using nano-chitosan, *Journal of Environmental Resources Research*. 5 (1), 25-34.
- Homa Hosseini, Hassan Rezaei. **Ali Shahbazi**, Alinaghi Maghsudlu, 2016. Application of Nano-lignocellulose for Removal of Nickel Ions from Aqueous Solutions, *Journal of Environmental Resources Research*. 4 (2), 213-229.
- **Ali Shahbazi**, AliReza Soffianian. 2014. Investigating the quantitative and qualitative characteristics and management of industrial waste in some industrial units in Isfahan province, *Journal of Environment and Development Journal*, 6 (11), 13-18. (in Persian)

- **Ali Shahbazi**, AliReza Soffianian, Norolah Mirghaffari. 2012. Contamination of soil heavy metals using Geoaccumulation index, contamination factor and comprehensive pollution index, *Journal of Environment and Development Journal*, 3 (5), 31-38. (in Persian)
- **Ali Shahbazi**, AliReza Soffianian, Roholah Afraz, Loghman Khodakarami. 2011. The spatial distribution of heavy metals cadmium, copper and lead in soil and sources of these metals, *Journal of RS and GIS for Natural Resources*, 2 (2), 99-109. (in Persian)
- Ali Khanamani, Hamed Sangoony, **Ali Shahbazi**. 2011. Evaluation of soil Status using RS and GIS technology Case study: the Segzi plain, *Journal of RS and GIS for Natural Resources*, 2(3), 2011: 25-37. (in Persian)

#### **Conference Papers**

- Ali Shahbazi**, AliReza Soffianian, Sima Fakheran, Norolah Mirghaffari. Impact assessment of agricultural activities on the accumulation of cobalt in soils, 12<sup>th</sup> Iranian soil science congress, September 3-5, 2011, Tabriz, Iran.
- **Ali Shahbazi**, AliReza Soffianian, Norolah Mirghaffari. The effects of chemical fertilizers on the accumulation of copper and nickel and the quality of agricultural soils, 1<sup>th</sup> National Conference on Modern Agricultural Sciences & Technologies, September 10-12, 2011, Zanjan, Iran.
  - **Ali Shahbazi**, Farzad Rouhani Shahraki, AhmadReza Safaei Gahnaviyeh. The effects of chemical fertilizers on soil quality and the impact of subsidies on fertilizer and agricultural economics, the first national conference on economic resolutions in the field of Agriculture, November 10, 2011, Qom, Iran.
  - **Ali Shahbazi**, Farzad Rouhani Shahraki, AhmadReza Safaei Gahnaviyeh. The potential and the need for renewable energy use in agriculture, the first national conference on economic resolutions in the field of Agriculture, November 10, 2011, Qom, Iran.
  - **Ali Shahbazi**, AliReza Soffianian, Norolah Mirghaffari. Contamination of soil heavy metals using Geoaccumulation index, contamination factor and comprehensive pollution index, 9<sup>th</sup> National Conference on Environmental Impact Assessment of Iran, February 15, 2012, Tehran, Iran.
  - **Ali Shahbazi**, Farzad Rouhani Shahraki, AhmadReza Safaei Gahnaviyeh. Dust effects on health, economy and environment and Methods of tracking the origin of the dust, the 1<sup>th</sup> international congress on dust haze, February 15-17, 2012, Ahvaz, Iran.
  - **Ali Shahbazi**, Mohamadreza Einghalaei, Hamed Sanguni. Necessity of Using Renewable Energies in Iran and the Problems of Applying these Energies, 17<sup>th</sup> National and regional Congress Iranian Society of Environmentalists, February 29-30, 2012, Tehran, Iran.
  - **Ali Shahbazi**, Farzad Rouhani Shahraki, AhmadReza Safaei Gahnaviyeh. Evaluation of Soil Contamination by Heavy Metals, Cobalt and Chromium, 01<sup>st</sup> National Desert Conference, June 16-17, 2012, Tehran, Iran.
  - **Ali Shahbazi**, AliReza Soffianian, Norolah Mirghaffari. The effect of agricultural activities on concentration of heavy metal copper and cobalt in some Hamedan province soils, the 6<sup>th</sup> national conference on world environment day, June 13-14, 2012, Tehran, Iran.
  - **Ali Shahbazi**, Farzad Rouhani Shahraki, AhmadReza Safaei Gahnaviyeh. Effects of agriculture on emissions of Greenhouse gases and the impact of climate change on agriculture, the 6<sup>th</sup> national conference on world environment day, June 13-14, 2012, Tehran, Iran.
  - **Ali Shahbazi**, Farzad Rouhani Shahraki, AhmadReza Safaei Gahnaviyeh. Phytoremediation of soils contaminated by heavy metals and issues arising from the use of this method, The Second National Conference on Planning and Environmental Protection, May 19, 2013, Hamedan, Iran.
  - **Ali Shahbazi**, AliReza Soffianian, Norolah Mirghaffari. Temporal and spatial variations of heavy metals cobalt and zinc, National conferences on agriculture and environmental science, February 24, 2014, Shiraz, Iran.

- **Ali Shahbazi**, AliReza Soffianian. Investigating the management of industrial wastes in different industries, National Conference on Investment Opportunities in the Recycling Industry, March 3, 2015, Gorgan, Iran.
- **Ali Shahbazi**, Farzad Rouhani Shahraki, AhmadReza Safaei Gahnaviyeh, Mohamadreza Einghalaei. Evaluation of heavy metal pollution using satellite data Landsat ETM + in agricultural areas city Nahavand, 3<sup>rd</sup> international congress of agricultural science, food and environmental, July 21, 2016, Tehran, Iran.
- **Ali Shahbazi**, Behzad Rahnama, Gholamreza Karimi, Ataolah Golalipour. Qualitative study of the Ramyan River using IRWQI index, The 5th International Conference on new Ideas in Agriculture, environment and tourism, June 1, 2017, Tehran, Iran.
- **Ali Shahbazi**, Ali Mohamadhassani, Farzad Rouhani Shahraki. Investigating the qualitative and quantitative characteristics of construction debris in the city Gorgan and feasibility of their recycling, International Congress of Civil engineering, Architectural and Urban Development, Shahid Beheshti University, Dec. 27-29, 2018, Tehran, Iran.

#### Books

- **Ali Shahbazi**. Fundamentals of Remote Sensing and Geographic Information System, Publishers: Baharn Institute of Higher Education, 2014, pp: 344. (in Persian)
- Ahmad Kolbady Nezhad, **Ali Shahbazi**, Ramin Nourqholi Pour, Kamran Nasirahmadi. Spatial Data Infrastructure (SDI) (idea to run): University of Science and Technology of Mazandaran, 2018, pp: 250. (in Persian)

#### Research Experience:

- **Project leader:** Environmental Consultant of Golestan Steel Rolling Industries, 2022
- **Co-Worker:** Inventory of environmental pollutants of Pardis Petrochemical Company, 2022
- **Co-Worker:** Life cycle assessment (LCA) and modification of environmental aspects and implementation of requirements from the life cycle perspective of ISO 14001 in the refinery, 2021
- **Co-Project leader:** Conceptual design of industrial and hazardous waste management system in Kerman province, 2020-2022.
- **Co-Project leader:** Monitoring and identification of pollutants in the area of Miqan wetland in Arak, 2021- 2022.
- **Project leader:** Environmental Consultant of Golestan Gas Company regarding Pipeline Transmission Projects, 2017- 2018.
- **Project leader:** Create database environment Golestan Province, Employer: Department of Environmental Protection Golestan Province, 2015-2016.
- **Project leader:** Examine executive strategies for environmental management of urban and rural wastes in Golestan province, Employer: Department of Environmental Protection Golestan Province, 2014-2016.
- **Project leader:** Review and identification of pollutant sources Ramian watershed and monitoring plan for it, Employer: Department of Environmental Protection Golestan Province, 2014-2015.
- **Co-Project leader:** Action plan of Industrial and special waste management, Employer: Environmental Protection Agency of Iran, 2010-2012.
- **Co-Project leader:** Soil Atlas Project Hamedan Province, Employer: Environmental Protection Agency of Iran, 2009-2011.

#### Memberships, Associations, Conferences

- A member of Iranian association for environmental assessment since 2011
- A member of soil science society of Iran since 2011

- A member of remote sensing and GIS society since 2011

### Teaching Experiences

**BSc Courses** in Baharn Institute of Higher Education and Golestan University; 2012-2020

- Human and Environmental (5 semesters)
- Water and soil pollution (7 semesters)
- Solid waste management (7 semesters)
- Agriculture and environmental (7 semesters)
- Environmental Rehabilitation (5 semesters)
- General Ecology (5 semesters)
- Air Pollution (7 semesters)
- Environmental Assessment (7 semesters)
- Environmental Engineering (4 semesters)
- Water and wastewater treatment (7 semesters)
- Environment and Health Factory (5 semesters)
- Environmental pollution (5 semesters)
- Environmental awareness and support (5 semesters)

**M.Sc. Courses** in Baharn Institute of Higher Education; 2015- 2020

- Geographic Information Systems (GIS) (2 semesters)

### Master thesis advised:

- Feasibility proper disposal of waste based on the physio-chemical characteristics using analytical hierarchy process (AHP) (case study: Golestan province)
- Removal of methylene blue from aqueous solutions Using Nano-fiber chitin
- Removal of Congo Red from aqueous solutions using Nano-Chitosan
- Habitat assessment of Urial Sheep (*ovis orientalis vignei*) in Saluk national park and protected area using Boosted Regression Trees (BRT)
- Removal of Nickel from aqueous solutions using Nano-Lingo Cellulose
- Designing Spatial Data Infrastructure (SDI) for environmental management in the city of Ramian, Iran.
- The ability of chitin Nano-fiber in Removal of Bromocresol Green from Aqueous Solutions.
- Feasibility proper disposal of waste based on physical and chemical characteristics using analysis hierarchy process (AHP) (case study: Golestan province)

### References

- **Mazaher Moeinaddini: (Supervisor)**  
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### Computer and Programming Skills

- ARC GIS
- ArcView
- Erdas Imagine
- Idrisi
- SPSS
- Lingo
- Vensim
- ADE4, Ordination (PCA, CA, CCA, DFA)
- PMF, Source identification
- R nonlinear analysis, (PCA, CA, CCA, DFA)
- SimaPro