

Curriculum Vitae

Hamed Vagheei

Civil and environmental engineer with experience and interest in hydrological modeling, water quality, water resources management, freshwater ecology, climate change, and water-energy-food nexus.

Turin, Italy

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Education and Experience

Research Fellow Mar. 2018 – Present

Politecnico di Torino, Turin, Italy

Ph.D., Civil and Environmental Engineering Nov. 2018 – Nov. 2022

Politecnico di Torino, Turin, Italy

Doctoral dissertation: "Ecohydrologic modeling for investigating the effects of human-induced environmental stressors on freshwater resources"

M.Sc., Civil Engineering; Water and Hydraulic Structures Sep. 2014 – Sep. 2016

Ayatollah Borujerdi University, Borujerd, Iran

Master thesis: "Climate change impacts on hydropower plants (case study: Seimareh Dam & Hydropower Plant)"

B.Sc., Civil Engineering Sep. 2010 – Mar. 2014

Ayatollah Borujerdi University, Borujerd, Iran

Honors and Awards

- Post-doctoral research fellowship, Politecnico di Torino (Apr. 2023 – Present)
- Research scholarship, Politecnico di Torino (Nov. 2021 – Mar. 2023)
- Research Ph.D. scholarship, Politecnico di Torino (Nov. 2018 – Oct. 2021)
- Research scholarship, Politecnico di Torino (Mar. 2018 – Oct. 2018)
- Ranked 1st in Master program
- B.Sc. outstanding student (top 5%)

Skills and Interests

- Technical: SWAT, SWAT-CUP, HEC-HMS, WEAP, GIS, GeoStudio, CAD, MATLAB, Python, Office
- Languages: Persian; English; Italian
- Interests: Travelling, swimming, basketball, football, music

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Publications

Vagheei, H., Laini, A., Vezza, P., Palau-Salvador, G., Boano, F., 2023. Climate change impact on the ecological status of rivers: The case of Albaida Valley (SE Spain). *Science of the Total Environment* 893, 164645. <https://doi.org/10.1016/j.scitotenv.2023.164645>.

Vagheei, H., Laini, A., Vezza, P., Palau-Salvador, G., Boano, F., 2022. Ecohydrologic modeling using nitrate, ammonium, phosphorus, and macroinvertebrates as aquatic ecosystem health indicators of Albaida Valley (Spain). *Journal of Hydrology: Regional Studies* 42, 101155. <https://doi.org/10.1016/j.ejrh.2022.101155>.

Goodarzi, M.R., Vagheei, H., Mohtar, R.H., 2020. The impact of climate change on water and energy security. *Water Supply* 20(7): 2530–2546. <https://doi.org/10.2166/ws.2020.150>.

Goodarzi, M.R., Vagheei, H., Mousavi, M., 2020. The behavior of inflow to the Seimareh Dam in the face of climate change impacts. *Journal of Environmental Science and Technology* 22(3): 169–182. [10.22034/JEST.2018.20468.2956](https://doi.org/10.22034/JEST.2018.20468.2956).

Conferences and Workshops

Vagheei, H., Laini, A., Vezza, P., Palau-Salvador, G., Boano, F., 2022. Evaluation of chemical and biological status of streams in the Albaida Valley, Spain. XXXVIII National Conference of Hydraulics and Hydraulic Constructions (Idra2022), Reggio Calabria, September 2022.

Vagheei, H., Vezza, P., Palau-Salvador, G., Boano, F., 2021. Predicting responses of chemical and biological water quality to human-induced environmental changes: the case study of Clariano River, Spain. EGU General Assembly 2021.

Vagheei, H., Vezza, P., Palau-Salvador, G., Boano, F., 2020. Modeling hydrology and water quality in Mediterranean watersheds: the case study of Clariano River, Spain. XXXVII National Conference of Hydraulics and Hydraulic Constructions, Idra2020.

Vagheei, H., Vezza, P., Palau-Salvador, G., Boano, F., 2020. The impacts of water quality changes on aquatic ecosystems: a case study of Clariano River, Spain. EGU General Assembly 2020.

Vagheei, H., Vezza, P., Palau-Salvador, G., Boano, F., 2019. Application of SWAT model in eco-hydrological assessment of the Clariano River. International Soil and Water Assessment Tool Conference, 17-19 July 2019, Vienna, Austria.

Advanced SWAT-CUP Workshop, 15-16 July 2019, Vienna, Austria.