

SAEED TAVAKHSH

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Professional and Academic Experience

Tehran Air Quality Control Co.

- Regional and Local Contribution of Oxidants in Tehran (Feb 2021 - Sep 2021)

Avash Environment Consulting Engineers

- Evaluated interaction of Covid-19 and air pollution in Tehran (2020-2022)
- Studied impact of high-rise construction on wind field in Mashhad
- Identified origin of unpleasant odor in Tehran (2018-2020)
- Conducted Environmental Impact Assessments (EIA) for Isfahan Steel Company

Education

M.Sc. in Climate Engineering and Science, Northeastern University, Boston, MA, April 2024.

- Air Quality Modeling with WRF-CAMx over Eastern United States
- Air Pollution Measurements with Mobile Lab

M.Sc. in Environmental Engineering (Air Pollution) University of Tehran, Tehran, Iran, Oct 2016.

- Thesis: Dust Storm Modeling in Kermanshah Using WRF-Chem and Heavy Metals Measurement
- B.Sc. in Civil Engineering Islamic Azad University, Kermanshah, Iran, March 2015.

Skills

- Weather Research and Forecasting model (WRF)
- WRF Data Assimilation (WRFDA)
- WRF with Chemistry (WRF-Chem)
- WRFDA with Chemistry (Chem-WRFDA)
- CAMx
- AERMOD
- HYSPLIT
- Python Programming language
- R Programming language
- Linux

Interests

- Chemical Transport Modeling
- Numerical Weather Prediction
- Air Pollution Modeling
- Air Quality Health Impact Assessment
- Emission Inventory,
- Indoor Air Quality
- Air quality and public health
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Publications and Research

- Origin of Tehran unpleasant odor in the period of 2018 to 2020 (under review)
- The impact of physics options on dust storm concentration in WRF-Chem - Case study of Kermanshah (under preparation)
- Simulation of two dust storms in 2018 with WRF-Chem in Kermanshah (under preparation)

References

Dr. Khosro Ashrafi, University of Tehran | Email: khashrafi@ut.ac.ir

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