Saeed **Tavakhsh**

CONTACT

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RESEARCH INTERESTS

- Chemical transport modeling
- Numerical weather prediction
- Formation, transport and deposition of aerosols
- Air pollution
- Emission inventory
- Indoor air quality
- Risk assessment

WORK EXPERIENCE

Feb 2021- Sep 2021   *Tehran Air Quality Control Co.*

- *Regional and local contribution of oxidants in Tehran*

2020-2022   *Avash Environment Consulting Engineers*

- *Evaluation of the two-way interaction of Covid 19 disease and air pollution in Tehran*
- *Investigation of the effect of highrise construction on wind field and the dispersion of pollutants in Mashhad.*
- *Origin of Tehran unpleasant odor in the period of 2018 to 2020.*
- *EIA of Isfahan steel company*
- *EIA of Petro kimia company*

EDUCATION

2022-2024   **M.Sc. in Cilmate Engineering and Science**

- Northeastern University, Boston, MA.

• Air quality modeling with WRF-CAMx over eastern united States.

• Air pollution measurments with mobile lab.

2016-2019   **M.Sc. in Environmental Engineering (Air Pollution)**

- *University Of Tehran, Tehran, Iran, Thesis : Dust Storm Modeling In The City Of Kermanshah Using WRF-Chem Model And Heavy Metals Measurment*

2010-2015   **B.S. in Civil Engineering**

- *Islamic Azad University Kermanshah branch, Kermanshah, Iran.*

SKILLS

- *Weather research and Forecasting (WRF) and WRD-DA model*
- *Weather research and Forecasting with Chemistry (WRF-Chem) model*
- *Comprehensive Air Quality Model with Extensions (CAMx)*
- *AERMOD modeling system*
- *HYSPLIT modeling system*
- *Python programming*
- *R programming language*
- *Linux operating system*
- *Atomic absorption spectroscopy*
- *Air sampling techniques*
- *Microsoft office*

HOBBIES AND INTERESTS

- Reading books on psychology and sociology.
- I like hiking and mountain biking and I always try to do it at least once a month.

RESEARCH

- *Origin of Tehran unpleasant odor in the period of 2018 to 2020 (under review)*
- *The impact of physics options on the Dust storm concentration in WRF-Chem in the western part of Iran – case study of Kermanshah city (under preparation).*
- *The simulation of two dust storms in 2018 with WRF-Chem in the city of Kermanshah (under preparation).*

AWARDS AND HONORS

- *Tuition waiver from University of Tehran, 2016-2019*

TEACHING EXPERIENCE

- *Training workshop on WRF in spring 2018*
- *Training workshop on WRF-Chem in summer 2018*

LANGUAGES

- *English: TOEFL IBT 90 (R 22, L 22, S 23, W 23)*
- *Kurdish (native)*
- *Farsi (native)*

REFRENCES

- *Khosro Ashrafi,PhD.*
  Associate professor, college of engineering/faculty of environment, University of Tehran, Tehran, Iran.
  Email : Khashrafi@ut.ac.ir

- *Mohsen Mirmohammadi, PhD.*
  Assistance professor, college of engineering/faculty of environment, University of Tehran, Tehran, Iran.
  Email : mirmohammadi.m@ut.ac.ir

- *Samuel Munoz, PhD.*
- Northeastern University
  Associate Professor of Civil and Environmental Engineering, college of engineering
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- Ryan Qi Wang
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- Matthew J. Eckelman
  Northeastern University
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