


# Mehri Hashemi Devin

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 [Google Scholar](#)  
 [ResearchGate Profile](#)

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## Education

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**Atmospheric Science and Meteorological Research Center, Atmospheric Faculty, Tehran, Iran - *Ph.D. in Meteorology***

September 2017 - February 2022

**Azad University, Tehran north branch, Faculty of Marine Science and Technology, Tehran, Iran - *M.S.c in Meteorology***

September 2003 - February 2006

**Shahid Bahonar University of Kerman, Faculty of Physics, Kerman, Iran - *B.sc in Physics***

September 1995 - June 2000

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## Research Interests

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● Remote Sensing ● Regional Climate Model ● Numerical weather prediction ● Meteorological data analysis ● Mountain weather forecast

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## Publications

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**[B1] Mehri Hashemi Devin et al.** Surface-based remote sensing of the atmospheric boundary layer (Translated to Persian) (2018)

Weather press. ISBN: 9786007229156

**[J1] Mehri Hashemi Devin et al.** Study of the effect of low-level jets on genesis and transport of dust in the west and southwest of Iran (2022)

*Iranian Journal of Geophysics*, 16(1): 1-19

DOI:10.30499/IJG.2021.278682.1320

**[J2] Mehri Hashemi Devin et al.** A Study on the Structural and Formation of the Low-Level Jet Stream over the Northern Persian Gulf (Case study on sinking the Behbahan cargo vessel) (2022)

*International Journal Of Coastal, Offshore And Environmental Engineering*,5(1): 55-66

DOI:10.29252/IJCOE.4.1.55

**[J3] Mehri Hashemi Devin et al.** Study on dust storms in Bojnord by SODAR (2015)

Nivar, Volume 39, 88-89 -Pages 31-42

DOI: 10.30467/nivar.2015.13446

**[J4] Mehri Hashemi Devin et al.** Evaluate the MEI effect on winter precipitation in Northern Khorasan (seasonal Forecast), (2012)

*Journal of Climate Research (in Persian), vol.13, 14*

**[J5] Mehri Hashemi Devin et al.** The Synoptic and dynamic study for maximum precipitation over Khorasan region (2008)

*Journal of the Earth and Space Physics, vol. 34, No. 2*

DOI:20.1001.1.2538371.1387.34.2.9.1

**[C1] Mehri Hashemi Devin et al.** Seasonal Forecasting in Iran, (2009)  
*the Seasonal Forecasting Tailoring Workshop, Beijing Climate Center, China*

**[C2] Mehri Hashemi Devin et al.** Aviation and Global Climate Change, (2011)

*ICESD2011, Mumbai, India*

**[C3] Mehri Hashemi Devin et al.** The synoptic-dynamic study of heavy precipitation over North Khorasan, (2013)

*International Workshop on Extreme Weather and Climate Events in the Southern Caucasus- Black Sea Region, Tbilisi, Georgia*

**[C4] Mehri Hashemi Devin et al.** The relationship of winter rainfall in Northern Khorasan to the seasonal multivariate ENSO index, (2014)

*WMO Technical Conference on Climate Services- Building on CLIPS Legacy , Heidelberg, Germany, 30 June - 2 July 2014*

**[C5] Mehri Hashemi Devin et al.** A qualitatively and quantitatively study of Frontogenesis with regard to the synoptic patterns for maximum frontal precipitation over Khorasan region. (2007)

*the Tenth Fluid Dynamic conference at the University of Yazd, 2007, Iran*

**[C6] Mehri Hashemi Devin et al.** Recorded Ionospheric Anomalies by TEC,foF2 during the days before severe earthquakes(2008)

*the first promontories of earthquake, University of Tehran, Iran*

**[C7] Mehri Hashemi Devin et al.** Tornado and its effects(2008)

*Islamic Azad University of Bojnurd, Iran*

**[C8] Mehri Hashemi Devin et al.** Introducing the methods use at prediction of earthquakes, (2009)

*The Third Disaster Management conference, University of Tehran, Iran*

**[C9] Mehri Hashemi Devin et al.** Statistical and synoptic analysis of the hail phenomenon over North Khorasan, (2009)

*the national congress of the decreasing the weather and climate disaster, Ardebil, Iran*

**[C10] Mehri Hashemi Devin et al.** Introducing of Statistical methods in seasonal forecasting, (2010)

*Climatological Research Institute, Mashhad, Iran*

**[C11] Mehri Hashemi Devin et al.** Analysis of some thunderstorm in Bojnurd by Sodar Data,(2012)

*14th Fluid Dynamics Conference, Birjand, Iran*

**[C12] Mehri Hashemi Devin et al.** Dust and Sand Storm in Iran, (2013)  
*Lecture, North Khorasan Meteorological Administration, Iran*

**[C13] Mehri Hashemi Devin et al.** Aviation Weather Hazards, (2013)  
*Lecture, North Khorasan Meteorological Administration, Iran*

**[C14] Mehri Hashemi Devin et al.** Drought monitoring in North Khorasan by GIS, (2013)

*The first National Conference on Climatology of Iran (NCCI),Kerman, Iran*

**[C15] Mehri Hashemi Devin et al.** The relationship of hailstorm to helicity in North Khorasan, case study Pishghaleh Hailstorm, (2013)

*the 15th Fluid Dynamic conference Faculty of Atmospheric-Oceanic Science and Technology, University of Hormozgan, Bandar Abbas, Iran*

[C16] Mehri Hashemi Devin et al. Analysis of Dust storm over north east of Iran(two case studies: Bojnurd and Mashhad dust storm), (2015)  
*national meteorological conference, University of Yazd,2015,Iran*

[C17] Mehri Hashemi Devin et al. Synoptic-Statistical study of permanent dust storm over Noth Khorasan, (2016)  
*the first International conference on Dust, Ahvaz, Iran*

[C18] Mehri Hashemi Devin et al. Study of dust storm over North Khorasan using Hysplit output, (2017)  
*17th Fluid dynamics Conference, Shahrood Technology University, Iran]*

[C19] Mehri Hashemi Devin et al. Study of Low Level Jet stream effect on dust over south west of Iran, (2021)  
*the 19th Fluid Dynamics Conference, Sharif University, Iran*

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## Experience

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### IRIMO, Weather Forecasting Center, North Khorasan – *Head of Forecasting Division*

2015 - PRESENT

- Implement a novel **model-based evaluation** of the MEI effect on the **seasonal precipitation forecast** in Northern Khorasan using CPT .  
[Link to project](#)
- Project manager of analytical study using **ground-based remote sensing** and **numerical models** “Study on dust storms in Bojnord by SODAR” in North Khoelasan Meteorological Administration (NKHMET). DOI:[10.30467/nivar.2015.13446](#)
- Theoretical study on the structural and formation of the **low-level jet** stream over the northern Persian gulf. DOI:10.29252/IJCOE.4.1.55
- Conduct an operational research based on **numerical model and remote sensing data** to find the effect of low-level jets on genesis and transport of dust in the west and southwest of Iran. DOI: [10.30499/IJG.2021.278682.1320](#)
- Team leader in charge of creating and disseminating mountain weather forecasts for Iran's summit of mount utilizing an automated system based on **numerical models** and **observation stations**.  
<https://msfi.ir/>
- **Project coordinator** of “Very short-range forecasting of Severe Convection based on T-Re diagram using **Meteosat Second Generation Satellite** over IRAN ” in Atmospheric Science and Meteorological Research Center (ASMERC)

### IRIMO, Weather Forecasting Center, North Khorasan – *In charge of numerical weather forecast*

2007 – 2014

- **Project executive** of “*The Analysis and Regionalization of drought over North Khorasan using GIS*” in Atmospheric Science and Meteorological

Research Center (ASMERC) and the result presented at “First National Conference on Climatology of Iran (NCCI)”.

- **Project executive** of “*The Analysis and Regionalization of suitable area for flood over North Khorasan using GIS*” in Atmospheric Science and Meteorological Research Center (ASMERC)
- **Project executive** of “Teleconnection and seasonal precipitation of Khorasan” in Atmospheric Science and Meteorological Research Center (ASMERC)
- **Project executive** of “flash flood over North Khorasan” using thermodynamic parameters in North Khorasan Meteorological Administration, *the 15th Fluid Dynamic conference Faculty of Atmospheric-Oceanic Science and Technology, University of Hormozgan, Bandar Abbas, Iran*

**IRIMO, Research and Statistical Center, North Khorasan** – *Meteorology and Research Expert*

2005 – 2006

- **Project coordinator** of “*Evaluation of clean Energy (solar and wind) over North Khorasan*” in Atmospheric Science and Meteorological Research Center (ASMERC)

#### **Teaching experiences:**

- Lecturer at Shirvan Agriculture College (Ferdowsi), Physics and meteorology, 2006-2011, Shirvan, Iran
- Lecturer at Agriculture College (Elmi va Karbordi Bojnurd), Weather and climate, 2009- 2011, Bojnurd, Iran
- Lecturer at Climatological Research Institute, Tailoring Workshop “introducing and application of CPT in seasonal forecasting”, 2010, Mashhad, Iran.
- Lecturer at Meteorological Research Institute, Climate Modeling and climate change, 2011, Tehran, Iran.
- Lecturer at Bojnurd University, Physics and meteorology, 2019-2021, Iran.
- Lecturer at Iran mountaineering & sport climbing federation, Mountain Meteorology, 2018 to now, Iran.

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#### **Languages**

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**English-Advanced - IELTS overall score: 6**

**Persian-Native**

**French - Beginner**

**Arabic-basic**

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## **Skills**

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**Operating Systems:** Linux, Windows, Mac

**Programming:** Python, R, MATLAB

**Numerical Modeling:** Weather and Research and Forecasting (WRF) model and WRF-CHEM, Regional Climate Model (RegCM), LARS-WG

**Post Processing:** Python Matplotlib, NCL, GrADS, CDO