

EDUCATION

- PhD (2007) **Physical Geography (Climatology)**, Tarbiat Moallem University, Tehran, Iran.
Dissertation: *The Analysis of Summer Atmospheric Circulation over Southwest Asia and its Relation to Summer Rainfall in Iran Plateau*, November 2007, 165pp.
Advisor: Professor Bohloul Alijani
- MA (2001) **Physical Geography (Climatology)**, Islamic Azad University, Tehran, Iran.
Thesis: *Synoptic Analysis of the Effect of the Black Sea on Precipitation of Iran*, January 2001, 154pp.
Advisor: Professor Bohloul Alijani
- BA (1993) **Physical Geography**, University of Tehran, Tehran, Iran.

ACADEMIC AND TEACHING POSITIONS

- Sep 2010 – Present **Assistant Professor**
Department of Geography, Ferdowsi University of Mashhad, Mashhad, Iran
- Jan 2011 – Feb 2011 **Visiting Scientist**
Center for Climatic Research (CCR), University of Wisconsin-Madison, Madison WI, USA. Host: Dr. Michael Notaro
- May 2009 – Aug 2009 **Visiting Scientist**
Climate & Global Dynamics Division, NCAR, Boulder CO, USA
Host: Dr. John Fasullo
- Nov 2007 – Sep 2008 **Assistant Professor**
Department of Geography, Tabarestan Institute of Higher Education, Iran
- Sep 2003 – Oct 2007 **Instructor**
Department of Geography, Tabarestan Institute of Higher Education, Iran
- Feb 2002 – Jul 2002 **Visiting Instructor**
Department of Geography, Noor Azad University, Mazandaran, Iran

TEACHING INTERESTS**COURSES TAUGHT****Ferdowsi University of Mashhad (FUM)**

As a tenured full-time instructor, I taught the following courses in the Geography Department:

- Climatology of Iran (Synoptic Aspects) 2010 (Fall semester- graduate course)
- Microclimatology 2010 (Fall semester- graduate course)
- Research Methods 2010 - 2016 (Fall semester - Graduate course)
- Fundamentals of Climatology I 2011 - 2014 (Spring semester), 2014 - 2016 (Fall semester)
- Fundamentals of Climatology II 2011 - 2013 (Fall semester), 2014 - 2016 (Spring semester)

- Weather Maps Analysis 2011- 2016 (Spring semester-graduate course)
- Fundamentals of Synoptic Climatology 2011 (Fall semester-graduate course)
- Synoptic Climatology of Iran 2011 - 2016 (Fall semester-graduate course)
- Programming and climate softwares 2013, 2014 (Fall semester-graduate course)
- Hydro-climate Modelling 2013 - 2015 (Fall semester-graduate course)
- Hydro-meteorology 2013 - 2015 (Fall semester-graduate course)
- Regional Climate Modelling 2014 (Spring semester-graduate course)
- Global Climate 2015, 2016 (Fall semester)

Tarbiat Modarres University

As a visiting instructor, I taught the following courses in the Geography Department:

- Climate Modelling 2014 (Fall semester-graduate course)
- Regional Climate Modelling 2014 (Fall semester-PhD course)

Sistan and Baluchistan University

As a visiting instructor, I taught the following course in the Geography Department:

- Climate Modelling 2012 (Fall semester-graduate course)

Tabarestan Institute of Higher Education

As a tenured full-time instructor, I taught the following courses in the Geography Department:

- Philosophy of Geography 2003, 2004, 2005, 2006, 2007 (Fall semester)
- Fundamentals of Climatology 2004, 2005, 2006, 2007, 2008 (Spring semester)
- Global Climate 2004, 2005, 2006, 2007 (Fall semester)
- Climatology of Iran (Synoptic Aspects) 2005, 2006, 2007, 2008 (Spring semester)
- Research Methods 2005, 2006, 2007, 2008 (Spring semester)
- Principles of Remote Sensing 2005, 2006 (Fall semester)
- Physical Geography of Iran 2006 (Spring semester)
- Introduction to Meteorology 2006, 2008 (Fall semester)
- Weather Maps Analysis 2006, 2008 (Spring semester)

Noor Islamic Azad University

As a visiting instructor, I taught the following courses in the Geography Department:

- Climatology of Iran (Synoptic Aspects) 2002 (Spring semester)
- Physical Geography of Iran 2002 (Spring semester)

Iran Ministry of Education (High Schools)

I have taught as a tenured, full-time teacher in high schools for 9 years:

RESEARCH INTERESTS

- Atmospheric Circulation over Southwest Asia
- Synoptic Climatology of Middle East
- Monsoon Circulation
- Climate Variability
- Regional Climate Modeling
- Extreme Weather in the Southern Coast of Caspian Sea
- Dust storms over the Middle East (Atmospheric aspects)
- Climatology of Stratosphere

PUBLICATIONS

- Hamidianpour, M., **Mofidi, A.**, Saligheh, M., and Alijani, B., 2017: The role of topography on the simulation of Sistan wind structure in the east of Iranian Plateau, *Researches in Geographical Sciences*, **16**(43): 25-53.
- Khosravi, M., **Mofidi, A.**, and Poorkarim-Barabadi, R., 2016: Investigating the Relation between Sistan 120 Day Winds and East Khorasan Winds, *Quarterly Journal of the Physical Geography*, **9**(31): 19-37.
- Khorshid-doust, A.M., **Mofidi, A.**, Rasouli, A.A., and Azarm, K., 2016: A Synoptic analysis on the occurrence of springtime heavy rainfall in the Northwest of Iran, *Journal of Natural Environment Hazards*, **8**: 53-82.
- Soltani, T., Gandomkar, A., Ataei, H., and **Mofidi, A.**, 2016: A Statistical Study of Mashhad's Air Polluted Days, *Journal of Geography and Environmental Studies*, **17**: 127-133.
- Soltani, T., **Mofidi, A.**, and Gandomkar, A., 2016: Synoptic Analysis of the Severe Polluted Days in the City of Mashhad; Case Study, November 2007, *Spatial Analysis of Environmental Hazards*, **2**(4): 95-112.
- Hamidianpour, M., **Mofidi, A.**, and Saligheh, M., 2016: The Nature and Structure of Sistan Wind, *Iranian Journal of Geophysics*, **10** (2): 83-109.
- Ahmadi, Z., Doostan, R., and **Mofidi, A.**, 2015: Synoptic Analysis of dust event occurrence in the Province of Southern Khorasan, *Quarterly Journal of the Physical Geography*, **8**(29): 41-62.
- Farajzadeh, M., Ahmadi, M., Alijani, B., and Ghavidel-Rahimi, Y., **Mofidi, A.**, and Babaeiyan, I., 2013: Investigating the effect of teleconnection patterns on the occurrence of precipitation in Iran, *Journal of Climate Research*, **15**: 31-45. (Published in May 2016)
- Karkhaneh, M., **Mofidi, A.**, and Zarrin, A., 2016: Modeling the role of Caspian Sea on the occurrence of regional-scale precipitation in the Caspian Sea Region, *Geography and Territorial Spatial Arrangement*, **18**: 153-168.
- Sadeghi, S., **Mofidi, A.**, Jahanshiri, M., and Doostan, R., 2015: The Role of Regional Scale Atmospheric Circulation on the Occurrence of Extremely High Air Pollution Episodes in Mashhad, *Journal of Geography and Environmental Hazards*, **10**: 1-35.
- **Mofidi, A.**, Soltanzadeh, I., Yousefi, Y., Zarrin, A., Soltani, M., Masoumpour, J., Azizi, GH., and Miller, S.T.K., 2015: Modeling the Exceptional South Foehn event (Garmij) over Alborz Mountains during the extreme forest fires of December 2005, *Natural Hazards*, **75** (3): 2489-2518. doi: 10.1007/ s11069-014-1440-9
- Kaskaoutis, D.G., Rashki, A., Houssos, E.E., **Mofidi, A.**, Goto, D., Bartzokas, A., Francois, P., and Legrand, M., 2015: Meteorological aspects associated with dust storms in the Sistan region, southeastern Iran, *Climate Dynamics*, **45** (1): 407-424. DOI: 10.1007/s00382-014-2208-3.
- Soltani, M., Babu, C. A., and **Mofidi, A.**, 2014: Meteorological Aspects of Abnormal Cooling Event over Iran in April 2009, *Meteorology and Atmospheric Physics*, **124** (1-2): 47-65.
- **Mofidi, A.**, Hamidianpour, M., Saligheh, M., and Alijani, B., 2014: Determination of onset, withdrawal and duration of Sistan wind using a change point approach, *Jouranl of Geography and Environmental Hazards*, **8**: 87-112.
- **Mofidi, A.**, Zarrin, A., and Karkhaneh, M., 2014: The investigation of atmospheric circulation pattern during wet and dry spells over southern coast of the Caspian Sea, *Iranian Journal of Geophysics*, **8** (1): 140-176.
- **Mofidi, A.**, Mohammadyarian, M., and Hosseinzadeh, SR., 2013: Atmospheric Hazards Zonation

in northeast of Iran, *Journal of Geography and Environmental Hazards*, **6**: 1-16.

- **Mofidi, A.**, and Zarrin, A., 2012: Investigating the Nature, Structure and Temporal Variation of Summertime Atmospheric Circulation over Southwest Asia. *Journal of Climate Research*, **11**: 15-40. (Published in October 2014).
- **Mofidi, A.**, Kamali, S., and Zarrin, A., 2013: Evaluation of the RegCM4 model coupled with Dust module on identification of dust storm features over the Sistan region, *Quarterly of Geography and Regional Planning*, **3** (3): 51-69.
- Raziei, T., Bordi, I., Santos, J.A., and **Mofidi, A.**, 2013: Atmospheric circulation types and winter daily precipitation in Iran, *International Journal of Climatology*, **33** (9): 2232–2246. DOI: 10.1002/joc.3596.
- **Mofidi, A.**, and Jafari, S., 2012: The Role of regional atmospheric circulation over the Middle East on the occurrence of summer dust storms in southwest Iran, *Geographical Studies of Arid Environments*. **2**(5): 17-45.
- **Mofidi, A.**, Zarrin, A., and Janbaz Ghobadi, G., 2012: The Causes of Decreasing in the Amount and Intensity of Winter Rainfall in Comparison to the Fall Rainfall in Southern Coast of Caspian Sea, *Journal of Earth and Space Physics*, **38** (1): 177-203.
- Alijani, B., **Mofidi, A.**, Aliakbari Bidokhti, A.A., and Jafarpour, Z., 2012: Atmospheric Circulation patterns of the summer rainfalls in the Southeast Iran during July 1994, *Journal of Earth and Space Physics*. **37** (3): 205-227.
- Raziei, T., **Mofidi, A.**, Santos, J.A. and Bordi, I., 2012: Spatial patterns and regimes of daily precipitation in Iran in relation to large-scale atmospheric circulation, *International Journal of Climatology*, **32**(8): 1226-1237. DOI: 10.1002/joc.2347.
- Janbaz Ghobadi, G., **Mofidi, A.**, and Zarrin, A., 2011: Determining the Synoptic Pattern of Winter Heavy Precipitation in Southern Coast of Caspian Sea, *Journal of Geography and Environmental Planning*, **22** (2): 23-40.
- Zarrin, A., Ghaemi, H., Azadi, M., **Mofidi, A.**, and Mirzaei, E., 2011: The effect of Zagros Mountains on the formation and maintenance of Iran anticyclone using RegCM4, *Meteorology and Atmospheric Physics*, **112**(3-4): 91-100.
- Raziei, T., **Mofidi, A.**, and Zarrin, A., 2009: The 500 hPa Action Centers and Winter Circulation Patterns over the Middle East and their Relationship with Precipitation in Iran, *Journal of Earth and Space Physics*, **35**(1): 121-141.
- **Mofidi, A.**, Zarrin, A., and Janbaz Ghobadi, G., 2008: Determining the Synoptic Pattern of Autumn Heavy and Extreme Precipitation in Southern Coast of Caspian Sea, *Journal of Earth and Space Physics*, **33**(3): 131-154.
- **Mofidi, A.**, 2006: The Role of Stratospheric Large Scale Circulation on the Stratospheric Ozone Depletion, Part II; Dynamical mechanisms, *Quarterly Geographical Journal of Territory*, **3**(11): 119-140.
- **Mofidi, A.**, 2006: Weather Modification and Cloud Seeding: Concepts, Methodology and Challenges, A Review, *Roshd; Teaching Geography*, **76**: 40-53.
- **Mofidi, A.**, 2006: The Role of Stratospheric Large Scale Circulation on the Stratospheric Ozone Depletion, Part I. *Quarterly Geographical Journal of Territory*, **3**(10): 118-148.
- **Mofidi, A.**, and Zarrin, A., 2006: The Analysis of the Nature and Structure of High and Low Pressure Systems; Part A, *Roshd; Teaching Geology*, **46**: 53-61. Part B, *Roshd; Teaching Geology*, **47**: 54-58.
- **Mofidi, A.**, 2006: Investigation of Appearance of Ozone Hole over Antarctic: Case Study; Ozone Hole 2005, *Roshd; Teaching Geology*, **44**: 8-15.

- **Mofidi, A.**, and Zarrin, A., 2006: Synoptic Investigation of the Influence of Sudanese Low Pressure Systems on the Occurrence of Heavy Rainfalls in Iran, *Geographical Research Quarterly*, **77**: 113-136.
- Zarrin, A., and **Mofidi, A.**, 2006: Variability of Solar Activity and Its Influence on the Earth's Climate: Case Study; Middle East and Iran, *Quarterly Geographical Journal of Territory*, **2**(8): 83-104.
- **Mofidi, A.**, and Zarrin, A., 2005: Synoptic analysis of the Nature of Sudanese Low Pressure Systems (Case Study; December 2001 Storm), *Quarterly Geographical Journal of Territory*, **2**(6): 24-48.
- **Mofidi, A.**, 2005: Synoptic Climatology of Heavy Rainfall with Red Sea Origin in the Middle East; A Review, *Geographical Research Quarterly*, **75**: 71-93.
- **Mofidi, A.**, 2004: El Niño and Southern Oscillation, *Roshd; Teaching Geography*, **68**: 15-20.

MANUSCRIPTS IN PREPRATION, REVIEW AND PRESS

- Gholipour, J., Sanaei Nejad, S.H., **Mofidi, A.**, and Alizadeh, A., 2017: Determination the Beginning of Summer Season in Iran on the Basis of Abrupt Northward Jump of the Subtropical Jet Stream over the Middle East, *Journal of Geography and Environmental Hazards*, **20**: (in Press) DOI: 10.22067/geo.v5i4.57806
- Khorshid-doust, A.M., **Mofidi, A.**, Rasouli, A.A., and Azarm, K., 2017: Evaluating the sensitivity of RegCM4 model to types of Convection Parameterization Schemes on the modeling of springtime precipitation in the North West of Iran, *Journal of Earth and Space Physics*, (In Press).
- **Mofidi, A.**, The role of Shamal Wind in the formation and development of dust storms in the Southwest of Iran, (In preparation).

CONFERENCES

- Mosavi, S.M., Zarrin, A., **Mofidi, A.**, and Hosseini, S.F., 2017: *Investigating the relation between frequency of thunderstorms and temperature trend in Mashhad*, 1st International and 8th National Conference on Urban Planning and Management, April 25-26, 2017, Ferdowsi University of Mashhad, Mashhad, Iran.
- Farashiani, M., Zarrin, A., and **Mofidi, A.**, 2017: *Investigation of Mashhad temperature circumstance at the end of 21st century due to global warming*, 1st International and 8th National Conference on Urban Planning and Management, April 25-26, 2017, Ferdowsi University of Mashhad, Mashhad, Iran.
- **Mofidi, A.**, 2016: *El Niño and its effects on the occurrence of climate anomalies over the Middle East and Iran*, One-day Meeting on the impacts of El Niño and La Niño (teleconnection patterns) on climate variability in Iran, Management and Planning Organization of Khorasan-e-Razavi, January 28, 2016, Mashhad, Iran.
- Ahmadi, M., Ab-kharabat, SH., Babaeian, I., Farajzadeh, M., **Mofidi, A.**, and Ghavidel-rahimi, Y., 2016: *Prediction the variability of monthly precipitation in Iran based on teleconnection patterns*, The 5th Regional Conference on Climate Change, January 25-26, 2016, Tehran, Iran.
- Zargari, M., **Mofidi, A.**, and Zarrin, A., 2015: *The influence of atmospheric circulation on the occurrence of extremely high air pollution episodes in the city of Tehran*, The First National Congress on development and promotion of Agricultural sciences, Natural Resources and Environmental Sciences, October 03, 2015, Tehran, Iran.
- **Mofidi, A.**, 2015: *Tracking of Sudanese Low over the Middle East*, Storm tracks Meeting and Workshop, Stratosphere-Troposphere Processes And their Role in Climate (SPARC), August 24-28, Grindelwald, Switzerland, (hosted by SPARC and supported by WCRP and WMO).

- Zargari, M., **Mofidi, A.**, and Zarrin, A., 2015: *Synoptic analysis of extremely high pollution days in the city of Tehran*, The 1st International Conference on Geographical Sciences (ICGS2015), August 06, 2015, Shiraz, Iran.
- Gerami, M.S., **Mofidi, A.**, and Zarrin, A., 2015: *Spatial analysis on the relation between Springtime rainfall occurrence in Northwest of Iran and regional scale atmospheric circulation*, First National Congress on Iran's Irrigation and Drainage, Iranian Association of Irrigation and Drainage, May 13-14, 2015, Ferdowsi University of Mashhad, Mashhad, Iran.
- Gholipour, J., Sanaei Nejad, S.H., **Mofidi, A.**, and Alizadeh, A., 2015: *Determination the beginning of Summer Season and its variability due to spatial and temporal variations of Subtropical Jetstream*, First National Congress on Iran's Irrigation and Drainage, Iranian Association of Irrigation and Drainage, May 13-14, 2015, Ferdowsi University of Mashhad, Mashhad, Iran.
- Noorouzian, M., and **Mofidi, A.**, 2015: *Investigating the Relation between types of Temperature Inversion and Pollutants Concentration in the Tehran Metropolis*, International Conference on Geography and Sustainable Development, May 07, 2015, Tehran, Iran.
- Ahmadi, M., Farajzadeh, M., Ghavidel-rahimi, Y., **Mofidi, A.**, Babaeian, I., Fathnia, A., and Ab-kharabat, SH., 2015: *Trend analysis of Iran's precipitation and its relation to the teleconnection patterns*, The First National Conference on Meteorology, Iranian Meteorological Society, April 22-23, 2015, University of Yazd, Yazd, Iran.
- Noorouzian, M., and **Mofidi, A.**, 2015: *Investigating the Structure of Temperature Inversion in the city of Tehran*, The First National Conference on Meteorology, Iranian Meteorological Society, April 22-23, 2015, University of Yazd, Yazd, Iran.
- Hasani, S., **Mofidi, A.**, and Zarrin, A., 2015: *Investigating the structure of Shamal Wind and its induced dust using a Regional Climate Model (RegCM4)*, The First National Conference on Meteorology, Iranian Meteorological Society, April 22-23, 2015, University of Yazd, Yazd, Iran.
- Kaskaoutis, D.G., Rashki, A., Houssos, E.E., **Mofidi, A.**, Goto, D., Bartzokas, A., 2014: *Meteorological conditions associated with severe dust storms in the Sistan region, Iran*, Proceedings of the 12th International Conference of Meteorology, Climatology and Physics of the Atmosphere (COMECAP 2014), Heraklion, Greece, Vol: 1, 492-496.
- **Mofidi, A.**, and Zarrin, A., 2013: *Numerical Modeling of the exceptional South Foehn event over Alborz Mountains during December 2005 extreme forest fire; A Meso-Scale Approach*, Second International Conference on Environmental Hazards, October 29-30, 2013, Kharazmi University, Tehran, Iran.
- Mohammadyarian, M., and **Mofidi, A.**, 2013: *Zonation of precipitation-based Hazards in North East of Iran*, Second International Conference on Environmental Hazards, October 29-30, 2013, Kharazmi University, Tehran, Iran.
- Mohammadyarian, M., **Mofidi, A.**, and Hosseinzadeh, SR., 2013: *Zonation of Temperature-based Hazards in the North East of Iran*, The First National Conference on Climatology of Iran, May 21-22, Graduate University of Advanced Technology, Kerman, Iran.
- **Mofidi, A.**, Kamali, S., Zarrin, A., 2013: *Evaluation of the RegCM4 model coupled with Dust module on identification of dust storm features over the Sistan region*, The First National Conference on Climatology of Iran, May 21-22, Graduate University of Advanced Technology, Kerman, Iran.
- **Mofidi, A.**, Karkhaneh, M., Zarrin, A., 2013: *Simulating the role of Caspian Sea on the occurrence of regional scale precipitation using a regional climate model (RegCM4) coupled with a Lake model*, The First National Conference on Climatology of Iran, May 21-22, Graduate University of Advanced Technology, Kerman, Iran.

- Zarghani, S.H., **Mofidi, A.**, and Shafieinia, M., 2012: *Climate Change and its role on the National Security*, The 2nd National Conference on Applied Political Geography, October 9, Iranian Association of Geopolitics, Tarbiat Modarres University, Tehran, Iran.
- **Mofidi, A.**, and Kamali, S., 2012: *Investigating the structure of Dust storm events in the Sistan region using Regional Climate Model RegCM4; Case Study July 30, 2001*, The 1st National Desert Conference, June 17-18, Desert International Research Center, University of Tehran, Tehran, Iran.
- **Mofidi, A.**, 2012: *The Role of Low Level Jets on the Formation and Development of Summertime Dust Storms over Southeast and Southwest of Iran*, First International Forum on Natural Airborne Dust in Iran, May 23-25, Kermanshah University of Medical Sciences, Kermanshah, Iran.
- **Mofidi, A.**, and Jafari, S., 2012: *The Role of regional atmospheric circulation over the Middle East on the occurrence of summer dust-storms in southwest Iran*, The 1st International Congress on Dust Haze and Combating it's Adverse Effects, February 15-17, Khuzestan, Ahvaz, Iran.
- **Mofidi, A.**, and Zarrin, A., 2012: *Investigating the structure of summer atmospheric circulation over Southwest Asia*, 92nd Annual Meeting of American Meteorological Society, January 22-26, New Orleans, LA, USA.
- **Mofidi, A.**, 2011: *The role of regional atmospheric circulation over Middle East on the occurrence of dust storms in southwest Iran; Dynamical analysis and regional climate modeling*, 14th National Conference on Environmental Health, November 1-3, Yazd Shahid Sadoughi University of Medical Sciences, Yazd, Iran.
- Zarrin, A., and **Mofidi, A.**, 2011: *Does summertime subtropical anticyclone over Iran is an extension of Azors High? "The investigation of a theory"*, 11th Congress of Iranian Geographers, September 15-16, Shahid Beheshti University, Tehran, Iran.
- **Mofidi, A.**, 2011: *The role of low-level atmospheric circulation over Middle East on the occurrence of dust storms in southwest Iran*, Iran/Iraq joint training program Environmental Management of Dust and Sand Storm and Combat Desertification, Khuzestan Environmental Research Center, Department of Environment, June 18-22, Ahvaz, Iran.
- Raziei, T., **Mofidi, A.**, Santos, JA., and Bordi, I., 2011: *Seasonal regimes of daily precipitation in Iran*, EGU General Assembly 2011, April 03-08, Vienna, Austria.
- **Mofidi, A.**, Zarrin, A., and Fasullo, J., 2010: *Summertime Atmospheric Circulation over Southwest Asia and Its Temporal Variability during the Second Half of the 20th Century*, 4th Regional Climate Change Conference, December 20-22, Tehran, Iran.
- **Mofidi, A.**, Alijani, B., and Zarrin, A., 2009: *The Structure of Summer Atmospheric Circulation over Southwest Asia*. 105th Annual Meeting of the Association of American Geographers, March 22-27, 2009, Las Vegas, Nevada, USA.
- Zarrin, A., Ghaemi, H., Azadi, M., Farajzadeh, M. and **Mofidi, A.**, 2009: *The Effects of Zagros Mountain on Iran Summertime Subtropical Anticyclone*. 105th Annual Meeting of the Association of American Geographers, March 22-27, 2009, Las Vegas, Nevada, USA.
- **Mofidi, A.**, Zarrin, A., and Janbaz Ghobadi, G., 2008: *Determining the Synoptic Pattern of Winter Heavy Precipitation and its Comparison to Autumn Heavy Precipitation in Southern Coasts of Caspian Sea*, The 1st International Conference on the Caspian Region Environmental Changes, August 24-25, 2008, University of Mazandaran, Babolsar, Iran.
- **Mofidi, A.**, Zarrin, A., and Janbaz Ghobadi, G., 2007: *Synoptic Investigation of Autumn Heavy Rainfalls in Southern Coasts of Caspian Sea*, Conference of Natural Resources and Sustainability in Southern Coasts of Caspian Sea, March 7, Noor Azad University, Noor, Iran.

INVITED LECTURES

- 12-2016 "A Review on the structure of Limited Area Models (LAMs) and their applications in the climate studies", Faculty of Geography and Environmental Sciences, Sistan and Balochestan University, December 07, Research Week 2016, Zahedan, Iran.
- 02- 2016 "El Niño phenomenon and its influence on the occurrence of climate anomalies in the Middle East and Iran". Department of Geography, Ferdowsi University of Mashhad, February 29, Mashhad, Iran.
- 01-2015 "The Nature and Structure of Atmospheric Pressure Systems". Ministry of Education, Mashhad-district 4, High School Geography Teachers, January 11, Mashhad, Iran.
- 01-2015 "The Nature and Structure of Atmospheric Pressure Systems". Ministry of Education, Mashhad-district 4, High School Geography Teachers, January 01, Mashhad, Iran.
- 12- 2014 "The Temperature Inversion & Atmospheric Stability and Instability". Dept. of Geography, Ferdowsi University of Mashhad, December 02, Mashhad, Iran.
- 12- 2013 "The Role of Mountain Waves and Foehn Event in the occurrence of Extensive Forest-fires in the North of Iran; A Meso-scale approach". Research Week, Dept. of Geography, Ferdowsi University of Mashhad, December 17, (Research Week 2013), Mashhad, Iran.
- 05-2013 "The Structure of Summertime Atmospheric Circulation over Southwest Asia; A New Fundamental Theory". The First National Conference on Climatology of Iran, May 21, Graduate University of Advanced Technology, Kerman, Iran. (Keynote Speaker)
- 12-2012 "The nature and structure of Sistan Wind". Research Week, Dept. of Geography, Ferdowsi University of Mashhad, December 18, (Research Week 2012), Mashhad, Iran.
- 12-2012 "The nature and structure of Sistan Wind; Investigating the formation, evolution and Consistency of Low Level Jets in the eastern Iran". Faculty of Geography and Environmental Sciences, Research Week 2012, December 12, Sistan and Balochestan University, Zahedan, Iran.
- 10-2012 "Open Discussion on Natural Hazards". Department of Geography, Ferdowsi University of Mashhad, October 09, International Day for Natural Disaster Reduction, Mashhad, Iran.
- 12-2011 "Dynamical Analysis of the occurrence of dust storms over the Middle East". Special Panel on dust events in Iran, School of Agriculture, Shiraz University, December 28, Shiraz, Iran.
- 12-2011 "The role of regional-scale atmospheric circulation on the occurrence of dust storms over the Middle East". School of Natural Resources and Environment, Ferdowsi University of Mashhad, Research Week 2011, December 17, Mashhad, Iran.
- 11-2011 "The role of regional atmospheric circulation over the Middle East on the occurrence of dust storms in southwest Iran; Dynamical analysis and regional climate modeling,". 14th National Conference on Environmental Health, November 1-3, Yazd Shahid Sadoughi University of Medical Sciences, Yazd, Iran. (Keynote Speaker)
- 10-2011 "The Mechanism of Dust Storms Occurrence in Southwest Iran". Geography Department, Ferdowsi University of Mashhad, October 13, (International Day for Natural Disaster Reduction), Mashhad, Iran.
- 06-2011 "The role of low-level atmospheric circulation over Middle East on the occurrence of dust storms in southwest Iran, Iran/Iraq joint training program Environmental Management of Dust and Sand Storm and Combat Desertification, Khuzestan Environmental Research

- Center, Department of Environment, June 18-22, Ahvaz, Iran. (Keynote Speaker)
- 12-2010 "Does Indian Monsoon Control Iran Summer Climate?" Geography Department, Ferdowsi University of Mashhad, December 29, (Research Week 2010), Mashhad, Iran.
- 11-2010 "Investigating the Structure of Summertime Atmospheric Circulation over Southwest Asia". Climatological Research Institute (CRI) and National Center of Climatology (NCC), November 1, Mashhad, Iran.
- 01-2008 "Atmospheric Circulation over Iran and Its Effect on Regional Scale Precipitation". Babol Geography Teachers Society, January 2, Babol, Mazandaran, Iran
- 01-2007 "The Nature of Atmospheric General Circulation". Babol Geography Teachers Society, January 10, Babol, Mazandaran, Iran
- 12-2006 "Concept of "Change" in Climatology and Causes of Global Climate Change". Tabarestan Institute of Higher Education, December 13, Chalous, Iran.
- 05-2006 "Ozone Depletion and Its Relation to Stratospheric Circulation". Tabarestan Institute of Higher Education, May 3, Chalous, Iran
- 11-2004 "Classification of Atmospheric Pressure Centers". Geography and Geology Teachers, Ministry of Education, Tehran-district 17, November 15, Iran.

WORKSHOPS

- 12-2016 "Gridded data processing using GrADS; A Tutorial", Department of Geography, Ferdowsi University of Mashhad, Dec 14, Mashhad, Iran. (Instructor)
- 05-2016 "Atmospheric data processing using a Climate Data Operator (CDO) Package", Department of Geography, Ferdowsi University of Mashhad, May 23, Mashhad, Iran. (Instructor)
- 05-2016 "A workshop on the Weather Research and Forecasting (WRF) Model", Department of Geography, Ferdowsi University of Mashhad, May 17-18, Mashhad, Iran. (Instructor)
- 11-2015 "Regional Climate Modeling (RegCM4) Workshop", Department of Geography, Ferdowsi University of Mashhad, November 03 -04, Mashhad, Iran. (Instructor)
- 05-2015 "A workshop on dynamical downscaling and its application in climate studies", First National Congress on Iran's Irrigation and Drainage, Iranian Association of Irrigation and Drainage, May 12, Ferdowsi University of Mashhad, Mashhad, Iran. (Instructor)
- 12-2014 "Regional Climate Modeling Workshop; Examples from Middle East Climate", Faculty of Geographical Sciences and Planning, University of Isfahan, December 16, Mashhad, Iran. (Instructor)
- 11-2013 "Regional Climate Modeling (RegCM4) Workshop", Department of Geography, Ferdowsi University of Mashhad, November 05 -06, Mashhad, Iran. (Instructor)
- 11-2012 "Regional Climate Modeling (RegCM4) Workshop", Department of Geography, University of Tehran, November 07-08, Tehran. (Instructor)
- 10-2012 "Gridded data processing using GrADS; A Tutorial", School of Geographical Sciences, Kharazmi University, October 13, Tehran. (Instructor)
- 05-2012 "Gridded data processing using GrADS; A Tutorial", School of Geography and Environmental Sciences, Hakim Sabzevari University, May 01, Sabzevar. (Instructor)
- 11-2011 "Regional Climate Modeling (RegCM4) Workshop" A Tutorial, Geography Department, Ferdowsi University of Mashhad, November 9-10, Mashhad, Iran. (Instructor)

09-2008 "The Grid Analysis and Display System (GrADS) Workshop": (GrADS Applications - Scripting in GrADS), Faculty of Geography, University of Tehran, September 26, Tehran, Iran. (Instructor)

AWARDS AND HONORS

EDUCATION:

- 2015 Advanced School and Workshop on Sub-seasonal to Seasonal (S2S) Prediction and Application to Drought Prediction, November 23 - December 04 , Trieste, Italy, (Awarded Program hosted by The Abdus Salam International Center for Theoretical Physics (ICTP) and supported by WWRP and WMO).
- 2015 Storm tracks Meeting and Workshop, Stratosphere-Troposphere Processes And their Role in Climate (SPARC), August 24-28, Grindelwald, Switzerland, (Awarded Program hosted by SPARC and supported by WCRP and WMO).
- 2012 Climate Variability and Seasonal Prediction Training Program 2012, APEC Climate Center (APCC), November 19- 30, Busan, Republic of Korea. (Awarded Program hosted by APCC)
- 2001 Top Student (MA), Tehran Islamic Azad University, Tehran, Iran

RESEARCH:

- 2013-2014 The investigation of atmospheric circulation patterns during wet and dry spells over Southern coasts of the Caspian Sea. Principal Investigator (Co-Investigator: Dr. A., Zarrin) Total award: \$1,500 (30,000,000 RLS), Funded by Ferdowsi University of Mashhad, Iran.
- 2012-2013 Modeling the south Foehn event in Leeward side of Alborz Mountains. Principal Investigator (Co-Investigators: Soltanzadeh, I., Yousefi, Y., Soltani, M., Zarrin, A., Masoompour, J.,) Total award: \$3,000 (30,000,000 RLS), Funded by Ferdowsi University of Mashhad, Iran.
- 2010-2011 The Effect of Atmospheric Patterns on the occurrence of Mashhad Air pollution. CO-Principal Investigator (Investigator: Sadeghi, S., FUM, and Doostan, A., FUM) Total award: \$3,000 (30,000,000 RLS), Funded by Ferdowsi University of Mashhad, Iran.
- 2007-2008 Determining the Synoptic Pattern of Winter Heavy Precipitation in Southern Coasts of Caspian Sea. Principal Investigator (Co-Investigators: Zarrin, A., Tabarestan Institute of Higher Education, and Janbaz Ghobadi., G., Noor Azad University) Total award: \$3,800 (38,000,000 RLS), Funded by Noor Azad University, Mazandaran, Iran.
- 2007 Excellence in Graduate Research Award, Tarbiat Moallem University, Tehran, Iran.

PROFESSIONAL ACTIVITIES

SOCIETY MEMBERSHIPS:

- 2012 – Member, American Meteorological Society
- 2011 – 2012 Regional Director (Khorasan Razavi), Iranian Association of Climatology
- 2010 – Member, Iranian Association of Climatology
- 2008 – Member, Association of American Geographers

- 2014 – 2016 Department of Geography, Member of Graduate Council, FUM.
- 2014 – 2015 Member of CCI and GFCS national committee, Commission for Climatology (CCI) and Global Framework for Climate Services (GFCS),
- 2016 – 2018 Consultant member of Climatology commission, Ministry of Science, Research and Technology, Higher Education Planning Office, Geographical Science group.

MEMBER OF THE STEERING COMMITTEE:

- 05 -2013 The First National Conference on Climatology of Iran, May 21, Graduate University of Advanced Technology, Kerman, Iran.

CONFERENCE COMMITTEE MEMBER:

- 04 - 2017 1st International and 8th National Conference on Urban Planning and Management, Mashhad 2017, April 25-26, Ferdowsi University of Mashhad, Mashhad, Iran.
- 11 - 2015 7th National Conference on Urban Planning and Management, November 11-12, Ferdowsi University of Mashhad, Mashhad, Iran.
- 05 - 2015 1st National Congress on Iran's Irrigation and Drainage, Iranian Association of Irrigation and Drainage, Ferdowsi University of Mashhad, Mashhad, Iran.
- 11 - 2014 6th National Conference on Urban Planning and Management, November 12-13, Ferdowsi University of Mashhad, Mashhad, Iran.
- 10 - 2014 The Second National Conference on Climate Change and Food Security, October 9, Research Institute of Shakhsh Pajooh, Isfahan, Iran.
- 10 – 2013 6th Congress of Iranian Association of Geopolitics, October 29-30, Ferdowsi University of Mashhad, Mashhad, Iran.
- 05 – 2012 First International Forum on Natural Airborne Dust in Iran, May 23-25, Kermanshah University of Medical Sciences, Kermanshah, Iran.
- 02 – 2012 The 1st International Congress on Dust Haze and Combating it's Adverse Effects, February 15-17, Khouzestan, Ahvaz, Iran.
- 11 - 2011 14th National Conference on Environmental Health, November 1-3, Yazd Shahid Sadoughi University of Medical Sciences, Yazd, Iran.

MEMBER OF REFEREES COMMITTEE:

- 04 - 2017 1st International and 8th National Conference on Urban Planning and Management, Mashhad 2017, April 25-26, Ferdowsi University of Mashhad, Mashhad, Iran.
- 11 - 2015 7th National Conference on Urban Planning and Management, November 11-12, Ferdowsi University of Mashhad, Mashhad, Iran.
- 05 - 2015 1st National Congress on Iran's Irrigation and Drainage, Iranian Association of Irrigation and Drainage, Ferdowsi University of Mashhad, Mashhad, Iran.
- 11 - 2014 6th National Conference on Urban Planning and Management, November 12-13, Ferdowsi University of Mashhad, Mashhad, Iran.

- 10 – 2013 6th Congress of Iranian Association of Geopolitics, October 29-30, Ferdowsi University of Mashhad, Mashhad, Iran.
- 05 -2013 1st National Conference on Climatology of Iran, May 21, Graduate University of Advanced Technology, Kerman, Iran.

JOURNAL REVIEWS:

- 2013- Physical Geography Research Quarterly (PGRQ) – In Persian
- 2012- Geography and Environmental Hazards (GEH) – In Persian
- 2011- Journal of Geographical Sciences (JGS) – In Persian
- 2011- Journal of Climate Research (JCR) – In Persian
- 2011- Iranian Journal of Geophysics (IJG) – In Persian
- 2010- Journal of Geographical Studies of Arid Environments - In Persian
- 2010- Journal of the Earth and Space Physics (JESP) - In Persian
- 2010- Geography and Regional Development (GRD) - In Persian
- 2010- Caspian Journal of Environmental Sciences (CJES)
- 2009- Meteorology and Atmospheric Physics (MAP)
- 2005 IPCC, *Safeguarding the Ozone Layer and the Global Climate System*, Cambridge University Press, Chapter 1; *Ozone and Climate: A Review of Interconnections*.

THESIS ADVISOR

- L. Shadkam** (M.A., Jan 2017): Southern Caspian Sea precipitation occurrence, regarding to total energy budget of Caspian Sea.
- S. Hasani** (M.A., Sep 2016): The nature and structure of summertime Shamal wind; a numerical modeling.
- M. Zargari** (M.A., Sep 2015): Numerical simulation of high level air pollution episodes in the city of Tehran.
- M. Noorouzian** (M.A., Sep 2015): The Structure of Temperature Inversions in the city of Tehran.
- M.S. Gerami** (M.A., Sep 2015): Spring precipitation in North-west of Iran; A research on mechanisms.
- M. Mir-drikvandi** (M.A., Jan 2015): The relationship between South Asian summer Monsoon onset and regional-scale atmospheric circulation over the Middle East.
- A. Safari** (M.A., Jan 2014): Recognition of main sources of Aeolian dust in Southwest of Iran.
- S. Kamali** (M.A., Feb 2013): Investigating the structure of dust storms in Sistan Basin using a Regional Climate model (RegCM4).
- M. Mohammadyarian** (M.A., Feb 2012): Zonation of Atmospheric Hazards in the Great Khorasan.
- M. Karkhaneh** (M.A., Jan 2012): The Role of Caspian Sea on the Occurrence of Precipitation In the Caspian Sea Region; A Regional Climate Modeling.
- A.S. Bayat** (M.A., Jan 2012): The Study of Alborz Mountain's Role on Precipitation Distribution in the Southern Coasts of Caspian Sea.
- S. Jafari** (M.A., Dec 2011): The Study of Atmospheric Circulation Patterns related to Dust Storm Events in Southwest of Iran using a Regional Climate Model (RegCM4).

THESIS READER / CO-ADVISOR

- K. Azarm** (Ph.D., Jan 2017): Climatology of convective precipitation in the Northwest of Iran.
- M. Nazari** (M.A., Feb 2016): The role of Arabian Anticyclone on the occurrence of drought in the west of Iran.
- F. Karami** (M.A., Sep 2015): A Study on temporal variation of precipitation in the city of Mashhad.
- J. Gholipour** (M.S., Jul 2015): Determination the beginning of summer season in the Middle East based on abrupt northward jump of Subtropical Jetstream.
- M. Shafieenia** (M.A., Sep 2014): The National Security and Climate Change.
- T. Soltani** (Ph.D., Sep 2014): Synoptic Analysis of Air pollution in Mashhad.
- M. Hamidianpour** (Ph.D., Jan 2014): The Structure and Nature of Sistan Wind.
- M. Ahmadi** (Ph.D., Dec 2013): Teleconnection Indices and Precipitation over Iran.
- A. Ahmadianrad** (M.A., Oct 2013): Investigation of tropical storms over the Arabian Sea.
- Z. Ahmadi** (M.A., Sep 2013): Investigation of dust events in South Khorasan province.
- L. Golzari-Partoo** (M.A., Dec2012): Lake Oormieh dying in a changing climate (A regional-scale simulation)
- H. Tavakoli** (M.A., Feb 2012): The Investigation of Wind-chill events in North-east of Iran.

HOBBIES

Swimming, Volleyball, Yoga, Badminton, Hiking, Martial Arts, Persian Calligraphy, Photography.