

CONTACT

Department Of Geography
University of Guilan
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EDUCATION

Ph.D., Climatology (Climate Change and Regional Climate Modeling), Department of Geography, Tarbiat Modares University, Tehran, Iran 2013
M.Sc., Climatology (Synoptic Map Patterns and Storm Tracking), Tehran University, Tehran, Iran 2006
B.Sc., Physical Geography, Majored: **Climatology**, Shahid Beheshti University (National University of Iran), Tehran, Iran 2003

EMPLOYMENT AND APPOINTMENTS

Associate Professor, University of Guilan, Rasht, Iran (<https://guilan.ac.ir/en/~oji>) Sep 2022 – Present
Assistant Professor, University of Guilan, Rasht, Iran Sep 2014 – Sep 2022
Adjunct Professor, Tarbiat Modares University, Tehran, Iran (<http://www.modares.ac.ir/en/>) 2013 – 2014
GIS Analyst, National Cartographic Center, Tehran, Iran (<http://www.ncc.org.ir/>) 2007 – 2014

FIELDS OF INTERESTS

Climate

Climate extremes; statistical models for environmental prediction and analysis; downscaling; predictive uncertainty; and assessing impacts of climate variability and change on environmental resources; Climate change detection and attribution.

GIS Application

Environmental Modeling and Mapping
Spatial Analysis, Spatial interpolation and disaggregation of meteorological fields

FELLOWSHIP AND SHORT-TERM VISIT

Visiting Scientist, Pacific Climate Impacts Consortium (PCIC), University of Victoria, BC, Canada 2012 – 2013
Partial-Fellowship, Postgraduate Courses on Building Resilience to Climate Change, UNU, Tokyo, Japan 2011

TEACHING EXPERIENCE

Department of Geography, University of Guilan, Rasht, Iran 2014 – Present
Computer Programming Basics for Geography, Undergrads Spring
Probability and Statistics for Geography I, Undergrads Spring
Principles of Climatology (Climatology II), Undergrads Spring
Applications of Geographic Information Systems in Urban Planning (GIS II), Undergrads Spring
Spatial Statistics and Geostatistics, Grads Fall
Principles of Climatology (Climatology I), Undergrads Fall
Climate of Iran, Undergrads Fall
Principles of Geographic Information Systems (GIS I), Undergrads Fall
Geographical Applications of Probability and Statistics, Undergrads Fall
Data Analysis and Statistics for Geography, Grads Fall

Natural Hazards (with emphases on climate extremes), Undergrads Fall 2014 and 2015

Specialized Training Center, University of Guilan, Rasht, Iran
Aerial Photo Interpretation 2018-2020
ArcGIS Training Course 2015-2018

Specialized Training Center, Geomatics College, NCC, Iran
Basic and advanced ArcGIS Training Courses 2012 – 2014

Tarbiat Modares University, Tehran, Iran

Programming Workshop- R Programing, Grads	Fall
Climate Modeling, Grads	Fall
Statistical Modeling, Grads	Fall
Programming Workshop, Grads	Spring

RESEARCH EXPERIENCES

General Directorate of Roads and Urban Development, Guilan Province, Iran Provincial Research collaboration	2024- 2025
Increasing urban resilience to climate change (Case Study: Cities of Guilan province, Iran) Responsibility: Principal Investigator	
Rasht Municipality, Guilan Province, Iran Provincial Research collaboration	2023- 2024
Urban green space mapping and surveying (Case Study: Rasht City, Guilan province, Iran) Responsibility: Principal Investigator	
Meteorological Organization, Guilan Province, Iran Provincial Research collaboration	2021- 2022
Spatiotemporal query analytics for extreme climate data in Guilan province Responsibility: Principal Investigator	
Iran National Science Foundation (INSF) National Research collaboration	2019- 2021
Network Analysis of Climate Change Management in Iran (Using Social Network Analysis) Responsibility: Principal Investigator	
Iran National Science Foundation (INSF) and Russian Foundation for Basic Research (RFBR) International Research collaboration	2017- 2021
Physical Mechanisms of Extreme Precipitations over the Southern Coast of the Caspian Sea (Using Weather Research and Forecasting (WRF) model) Responsibility: Co-Principal Investigator	
Guilan Regional Electric Company, Guilan Province, Iran Provincial Research collaboration	2017-2019
Wind and Radiation Energy Zoning for Generation of Electrical Power & Zoning Calculate Ice Thickness Based on Meteorological Data in Guilan province, Iran Responsibility: Wind and Radiation Energy Zoning	
Water Research Institute, Ministry of Energy, Iran National Research collaboration	2017
Assessment of Climate Change Impacts on Hydrological Condition of Tashk-Bakhtegan Basin Responsibility: Multi-site Downscaling of Precipitation and Temperature Extremes and Uncertainty analysis	
Golestan University, Iran Provincial Research collaboration	2014
Climate change and Risk Assessment of Golestan Province, Iran Responsibility: Climate Modeling	
Behan Sad Consulting Engineers, Tehran, Iran National Research collaboration	2011
Drought monitoring of Iran Responsibility: Interpolation of Precipitation and Temperature	

PUBLICATIONS**Journal Paper**

- Mazloom, K., Zolfaghari, H., **Oji, R.**, Matzarakis, A. (2023). *The Impacts of Global Warming on Tourism Climate in Iran. Geographical Space*. URL: <http://geographical-space.iau-ahar.ac.ir/article-1-3894-fa.html> (In Persian)
- Mazloom, K., Zolfaghari, H., **Oji, R.**, Matzarakis, A. (2023). *A comparison of physiologically equivalent temperature based on model simulation and site observation data for Iran. Air Quality, Atmosphere and Health*. <https://doi.org/10.1007/s11869-023-01367-4>
- Noroozinezhad, M., Yasouri, M., **Oji, R.** (2023). *Assessing the level of economic sustainability of rural settlements in the county of Langroud. Journal of Geography and Planning*, 27(86), 199-217. <https://doi.org/10.22034/gp.2023.50883.2985> (In Persian)
- Noroozinezhad, M., Yasuri, M., **Oji, R.** (2023). *Spatial analysis of economic sustainability in rural settlements of Langroud County*. 11 (42):169-194
URL: <http://serd.khu.ac.ir/article-1-3885-fa.html> (In Persian)

- Oji, R., Hesam, M., & Keener, V.** (2022). Using social network analysis to assess climate change professionals' communications in Iran, *Weather, Climate, and Society*. URL: <https://journals.ametsoc.org/view/journals/wcas/aop/WCAS-D-21-0002.1/WCAS-D-21-0002.1.xml>
- Roshan, G.R., **Oji, R.**, Fdez-Arróyabe, P. (2022). Future impact of cloudiness and wind changes on thermal comfort conditions in the city of Tabriz (Iran) in the frame of climate change, *Sustainable Cities and Society*, Volume 77, 103575, ISSN 2210-6707, <https://doi.org/10.1016/j.scs.2021.103575>.
- Akhlāghi Yengejeh, N., Pirmorādiān, N., **Oji, R.**, & Ashrafzādeh, A. (2021). Performance evaluation of the penalized maximal T and F algorithms in the quality control of monthly and daily climatic time series on the southwest coast of the Caspian Sea. *Geographical Studies of Coastal Areas Journal*, 2(3), 53-78. doi: 10.22124/gscj.2021.20765.1116 (In Persian)
- Oji, R.**, Aghaeizadeh, E., Mirabimoghadam, M. (2021). The Effect of Urban Green Spaces Reduction on Surface Temperature and Relative Humidity Changes (Case study of Rasht City). *Journal of Studies of Human Settlements Planning*, 15(4), 1103-1118. (In Persian)
- Toropov, P. A., Shestakova, A. A., Kislov, A. V., **Oji, R.** (2019). Heavy Precipitation on the Iranian Coast of the Caspian Sea. *Journal of Oceanological Research*, 47(5). DOI: 10.29006/1564-2291.JOR-2019.47(5).9 (In Russian)
- Roshan, G.R., **Oji, R.**, & Attia, S. (2019). Projecting the impact of climate change on design recommendations for residential buildings in Iran, *Building and Environment*, Volume 155, Pages 283-297, ISSN 0360-1323, <https://doi.org/10.1016/j.buildenv.2019.03.053>.
- Mirabimoghaddam, M., Aghaeizadeh, E., & **Oji, R.** (2019). An Investigation of Urban Green Space Suitability in Residential Complexes (Case Study: Rasht City). *Geographical Urban Planning Research (GUPR)*; 7(2): 265-283. doi: 10.22059/jurbangeo.2019.230893.693 (In Russian)
- Oji, R.**, & Ghafarian, P. (2018). Identification and Estimation of Extreme Rainfalls of Southern Coast of the Caspian Sea Using Extreme Value Analysis Theory. *Journal of Oceanography*. 9 (34):39-48. DOI: 98.1000/1562-1057.1397.9.39.0.34.1588.1606 (In Persian)
- Oji, R.** (2018). Comparison of Multi-site and Single-site Daily Precipitation and Temperature Extremes Downscaling (Case Study: Southern Coast of the Caspian Sea). *Journal of the Earth and Space Physics*. 44(2): 397-410. DOI: 10.22059/jesphys.2017.234927.1006908 (In Persian)
- Farajzadeh, M., **Oji, R.**, Ghavidel, Y. & Massah Bavani, A.R. (2017). Evaluation of single-site and multisite SDSM techniques in terms of indices of climate extremes for the Midwest of Iran. *Journal of the Earth and Space Physics*. 43(1): 193-208. DOI: 10.22059/JESPHYS.2017.57734 (In Persian).
- Zolfaqari, H., Rahimi, H., & **Oji, R.** (2017). Assessment of climate change Effects on heating and cooling degree days of Iran. *Geography and Sustainability of the Environment*. 7(22): 1-20. (In Persian)
- Ghavidel, Y., Alijahan, M., & **Oji, R.** (2015). An evaluation of deterministic and stochastic methods to interpolation Ardabil province precipitation. *Geographical Space*. 15(50): 209 - 231. (In Persian)
- Farajzadeh, M., **Oji, R.**, Cannon, A.J., Ghavidel, Y. & Massah, A.R. (2015). An evaluation of single-site statistical downscaling techniques in terms of indices of climate extremes for the Midwest of Iran. *Theoretical and Applied Climatology*, 120(1-2): 377-390. DOI: 10.1007/s00704-014-1157-4
- Davtalar, R., Salamat, A.R., & **Oji, R.** (2013). Water Harvesting from Fog and air Humidity in the Warm and Coastal Regions in the South of Iran. *Irrigation and Drainage*. 62(3): 281-288. DOI: 10.1002/ird.1720.
- Roshan, G.R., **Oji, R.**, & Al-Yahyai, S. (2013). Impact of Climate Change on the Wheat Growing Season over Iran. *Arabian Journal of Geoscience*. 7(8): 3217-3226. DOI: 10.1007/s12517-013-0917-2.
- Roshan, G.R., **Oji, R.**, Najafi, M.S., & Shahkuhi, E. (2012). Prospect of Climate Change Impacts on Wheat Degree-Days Variability in Different Climate Regions of Iran. *Regional Planning*. 4:93-108 (In Persian)
- Jafarbeglou, M., Khoshakhlagh, F., & **Oji, R.** (2009). Seasonal Location and Frequency of Cyclonic Tracks in Wet Periods of Iran's Midwest. *Physical Geography Research*: 68: 71-84. ISSN 2008-360x (In Persian)
- Khoshakhlagh, F., **Oji, R.**, Jafarbeglou, M. (2008). A Synoptic Study on Seasonal Patterns of Wet and Dry Spells in Midwest of Iran. *Desert*. 13(2):89-103. DOI: 10.22059/JDESERT.2008.36293
- Oji, R.**, & Khoshakhlagh, F. (2007). A Statistical Study on Dry and Wet Spells of Iran's Midwest. *Sepehr*. (In Persian)

Conference Paper

- Oji, R.** (2019). Global Warming and Its Impact along the Silk Road. University of Guilan, Iran. International conference on people and environment along the Silk Road.
- Oji, R.**, Ghafarian, P., (2018). Statistical characteristics of extreme rainfall in the south coast of the Caspian Sea, Ferdowsi University of Mashhad: 2nd National Iranian Climate Conference. (In Persian)
- Davudi, M., & **Oji, R.** (2018). Evaluation of Climate and Environmental Potential of Saffron (Case Study: Lorestan Province), Ferdowsi University of Mashhad: 2nd National Iranian Climate Conference. (In Persian)
- Zolfaqari H., Rahimi, H., & **Oji, R.** (2017). Estimation of Iran's domestic and commercial electricity consumption under climate change conditions based on the output of the EC-Earth general circulation model. National conference on climate change and energy security, Rasht, Iran. (In Persian)
- Oji, R.** (2017). Strategies to Make the Iranian energy sector more resilient to climate change. National conference on climate change and energy security, Rasht, Iran. (In Persian)
- Oji, R.** (2017). Combining climate change adaptation and mitigation measures; Needs and Challenges. Iranian Association of geomorphology, Fifth national conference on geomorphology and environmental challenges, Mashhad, Iran. (In Persian)
- Oji, R.**, & Davudi, M. (2015). Climate Change a Threat to Sustainable Development; A Case Study of Guilan Province. National conference on an Identification of Guilan Province development strategies, Rasht, Iran. (In Persian)
- Oji, R.**, & Davudi, M. (2016). Climate Change Impacts on Snowfalls; A Case Study of Iran's Midwest. 5th Regional conference on climate Change, Tehran, Iran. (In Persian)

Book Chapter

- Farid Mojtaehedi, N., Abed, H., Negah, S., **Oji, R.**, Hadinejad Sabouri, S., & Momenpour, F. (2018). Climate of Guilan, Art Bureau Province of Guilan Publications, Rasht, Iran. (In Persian)

Akbarrinejad, V., Kazempoor, R., Shojaei, M., Rezaei, M., & Oji, R. (2014). *Atlas of Iranian Sheep Breeds*. Noorbakhsh Press, ISBN: 978-600-7309-03-2.

WORKSHOPS, CONFERENCE, ETC.

Organizer, International Training Workshop on Detection and Attribution of Climate Extremes, University of Guilan, Rasht, Iran, June 26-27, 2018
 Co-organizer, Seminar of The science of extremes and some implications for engineering applications, Guilan Regional Electric Company (GilREC), Rasht, Iran, June 25, 2018
 Member of the Scientific Committee, National 2nd national conference on climatology of Iran, Ferdowsi University of Mashhad, Iran, May 9, 2018
 Scientific Secretary and Co-organizer, 1st National Conference on Climate Change and Energy Security, University of Guilan, Rasht, Iran, October 24, 2017
 Invited Speaker, Man-Made Global Warming, Guilan's Branch of Scientific Association of Passive Defense, Rasht, Iran, July 7, 2017
 Member of the Organizing and Scientific Committee, National Conference on Identifying Approaches to Guilan Development, University of Guilan, Rasht, Iran, April 29, 2015
 Member of the Scientific Committee, 22nd National Conference on Geomatics, National Cartographic Center, Tehran, Iran, October 18, 2015

EDUCATIONAL AND PEER REVIEW CONTRIBUTIONS

Educational Contributions

G Shahshahani, 2024-, M.Sc., University of Guilan, Supervisor
 F. Razmara, 2024-, M.Sc., University of Guilan, Supervisor
 Z. Kazemi, 2023-2024, M.A., University of Guilan, Supervisor
 F. Jafari, 2023-2024, M.Sc. Student, University of Guilan, Iran, Supervisor
 K. Mazlum, 2018-2022, Ph.D. Student, Razi University, Iran, Advisor
 M. Gurangi, 2022, M.Sc. Student, University of Guilan, Iran, Supervisor
 E. Seyfi, 2022, M.A. Student, University of Guilan, Iran, Supervisor
 H. Aliyar, 2022, M.A Student, University of Guilan, Iran, Supervisor
 M. Mahbubi, 2020-, M.Sc. Student, University of Guilan, Iran, Supervisor
 S. Ahmadi, 2019-2020, M.Sc., University of Tehran, Iran, Advisor
 N. Akhlaghi, 2018-, M.Sc. Student, University of Guilan, Iran, Advisor
 B. Ghasemi, 2017-2018, M.Sc. Student, University of Guilan, Iran, Advisor
 H. Rahimi, 2015-2017, Ph.D. Student, Razi University, Iran, Advisor
 M. Mirbabi Moghadam, 2015-2016, M.Sc. Student, University of Guilan, Iran, Advisor
 R. Mohammadzadeh, 2015-2016, M.Sc. Student, University of Guilan, Iran, Advisor

Peer Review Contributions

Journal of Meteorology and Atmospheric Physics (<http://link.springer.com/journal/703>)
 Journal of Environmental and Agricultural Sciences (<http://agropub.com/Journals/index.php/JEAS>)
 Journal of Natural Environment Change (<https://incc.ut.ac.ir>)
 Journal of Geography and Regional Development (<http://scienceimpactfactor.com/?p=394>)
 Journal of Spatial Planning (<http://hsmssp.modares.ac.ir/>)
 Journal of Water and Irrigation Management (<https://jwim.ut.ac.ir/>)
 Environmental Erosion Research Journal (<http://magazine.hormozgan.ac.ir/>)
 Journal of Oceanography (<http://joc.inio.ac.ir>)
 Geography and Sustainability of Environment (<http://ges.razi.ac.ir>)
 Earth Science Researches (<http://esrj.sbu.ac.ir/>)

GRADUATE COURSES TAKEN

Climate and Atmospheric Science

[International training workshop on ecological monitoring and scientific practice in central and western Asia](#),
 Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences 2021
[Virtual clinic on bias adjustment of climate model data, IS-ENES3](#), Europe/Vienna 2021
 International Training Workshop on Detection and Attribution of Climate Extremes, University of Guilan, Rasht, Iran 2018
 International Training Workshop on Climate Change and the Caspian Sea, National Institute of Oceanography and Atmospheric Science, Tehran, Iran 2016
 NCL Workshop, Ferdowsi University, Mashhad, Iran 2016
 CDO Workshop, Ferdusi University, Mashhad, Iran 2016
 RegCM Modeling Workshop, Ferdusi University, Mashhad, Iran 2013
 2nd National Conference on Disaster Management-
 The Role of New Technologies in Reducing Vulnerability to Climate Hazards Workshops,
 National Disaster Management Organization, Tehran, Iran 2012
 WRF Modeling Workshop, Ferdowsi University, Mashhad, Iran 2012

GIS Application on Climate Change, Tokyo, Japan (UN-CECA)	2011
GIS, RS & Mapping	
Advanced GIS, NCC, Tehran, Iran	2012
Basic Adobe Illustrator, NCC, Tehran, Iran	2010
Advanced Adobe Illustrator, NCC, Tehran, Iran	2010
Advanced Cartography, NCC, Tehran, Iran	2010
Advanced ArcGIS, NCC, Tehran, Iran	2009
Arial Photo Interpretation, NCC, Tehran, Iran	2007

TECHNICAL SKILLS**GIS**

ArcGIS: Proficient

Climate Modeling and DownscalingR packages of Statistical Downscaling, RegCM and WRF:
Familiar**Programming**

R: Familiar

Typography

MS Office: Proficient

Statistical SoftwareExcel: Proficient
R & SPSS: Familiar**OS**WINDOWS: Proficient
LINUX: Familiar**LANGUAGES**Persian (Native or bilingual proficiency)
Azerbaijani (Native or bilingual proficiency)
English – Fair
Arabic – Limited working proficiency**REFERENCES****M. Farajzadeh, Professor**Dept. Geography, Tarbiat Modares University, Tehran, Iran
Email: farajzam@modares.ac.ir**Bohlul Alijani, Professor**Dept. Geography, Kharazmi University, Tehran, Iran
Email: alijani@khu.ac.ir**Yusef Ghavidel, Associate Professor**Dept. Geography, Tarbiat Modares University, Tehran, Iran
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