AZAD RASUL

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PROFESSIONAL EXPERIENCE

Soran University, Soran, Erbil

Lecturer, Mar 2010 - Present

- My students became professional in using technology to support their research.
- Improved lectures and syllabus in our department with our contributions.
- With my supervision, students successfully completed their scientific desertification.

University of Leicester and Copernicus Global Land Service

Project Assistant (part time), Nov 2016 - Mar 2020

- Assessing the quality of a global burned area product
- Data handling
- Coding in Google Earth Engine
- Report writing

University of Leicester and Starlab LTD. Funded by European Space Agency, Leicester

Research Assistant, May 2016 - Jul 2016

EDUCATION

University of Leicester

Leicester, Leicestershire

Doctor of Philosophy (Ph.D.) Geography (Sep 2016)

- **Relevant Coursework:** Remote Sensing , GIS, R programming

Luhansk Taras Shevchenko National University

Luhansk, Luhansk

Master/Geography Geography (Jun 2009)

- **Relevant Coursework:** Using computer technology in scientific and educational activities, Thematic cartography and computer map manufacture, Natural resources use and preservation, Ecologically geographical problems of Donbass nature protection

Salahaddin University

Erbil, Erbil

Bachelor of Arts (B.A.) Geography (Jul 2000)

- **Relevant Coursework:** Geographical statistics, Cartography, Computer, Remote sensing, Agricultural geography, Water resources, Geography of natural resources

SKILLS

- Languages: English, Arabic, Russian and Kurdish.
- Advanced skills using Google Earth Engine, ENVI, QGIS, GeoServer, ArcGIS, Python, and R.
- Strong analytical skills and problem solving abilities in the field of work
- Excellent skills in producing well-structured technical documents and operational procedures

- Demonstrated analytical and creative problem-solving skills
- Excellent analytical skills and cross-functional thinking
- Process validation: Performing of validation for automated production process and being pro-active in suggesting better, more efficient alternate solutions

LICENCES AND CERTIFICATIONS

- 2nd ESA Advanced Training Course on Atmospheric Remote Sensing, European Space Agency, October 2014
- An Inside Look at how NASA Measures Air Pollution, NASA's Applied Remote Sensing Training Program, May 2020
- Forest Mapping and Monitoring with SAR Data, NASA's Applied Remote Sensing Training Program, May 2020

CONFEENCES

- Climatological, Meteorological and Environmental factors in the COVID-19 Pandemic, Virtual Symposium organized by World Meteorological Organization, August 2020.
- The first conference on current state of research and applications of GIS and remote sensing, Soran University, Iraq, October 2019
- RSPSoc Annual Conference, Nottingham, UK, September 2016
- 9th International Conference on Urban Climate, Toulouse, France, July 2015
- Centre for Landscape and Climate Research Annual Conference, Leicester, UK, November 2013

PROFESSIONAL MEMBERSHIPS

- International Society for Photogrammetry and Remote Sensing
- American Society of Photogrammetry and Remote Sensing
- Canadian Remote Sensing Society
- International Association for Urban Climate

PUBLICATIONS

- **Rasul, A.**; Balzter, H., 2020, “Relationship between monthly climatic variables and worldwide confirmed COVID-19 cases”, preprint. https://dx.doi.org/10.2139/ssrn.3626108
- **Rasul, A.**, 2020, “Global Spatial Relationship between Land Use Land Cover and Land Surface Temperature”, in review.
- **Rasul, A.**; Ibrahim, S.; Onojeghuo, A.; Balzter, H., 2020, “Modelling leaf area index and land surface temperature to assess their changing trends and relationships from global to regional scales”, in review.
- **Rasul, A.**; Ibrahim, G.; Hamid, H.; Tansey, K., 2020, “A trend of increasing burned areas in Iraq from 2001 to 2019”, Environment, Development and Sustainability. https://doi.org/10.1007/s10668-020-00842-7
- Ibrahim, G.R.F.; Hamid, A.A.; Darwesh, U.M; **Rasul, A.,** 2020, “A GIS-based Boolean logic-analytical hierarchy process for solar power plant (case study: Erbil Governorate—Iraq)”, Environment, Development and Sustainability. https://doi.org/10.1007/s10668-020-00862-3
- **Rasul, A.**; Omar, L. W., 2020, "Land surface temperature anomalies detected for some strong earthquakes in 2018", ARO. http://doi.org/ 10.14500/aro.10591

- Hameed, H., Ibrahim, G., **Rasul, A.,** 2020, "Effects of Land Cover Change on Surface Runoff Using GIS and Remote Sensing: a Case Study Duhok Sub-Basin", in: Environmental Remote Sensing and GIS in Iraq. https://doi.org/10.1007/978-3-030-21344-2_9
- Tansey, K.; **Rasul, A.**; Ibrahim, S., 2020, "Scientific Quality Evaluation Report 2019 Burned Areas 300m V1", Copernicus Global Land Operations. https://land.copernicus.eu/global/sites/cgls.vito.be/files/products/CGLOPS1_SQE2017-2018_BA300m-V1_I1.10.pdf
- Ibrahim, G.; **Rasul, A**.; Hamid, A.; Ali, Z.; Dewana, A., 2019, "Suitable Site Selection for Rainwater Harvesting and Storage Case Study Using Dohuk Governorate", Water, 11(4), https://doi.org/10.3390/w11040864
- **Rasul, A.,** 2019, "An investigation into the location of the crashed aircraft through the use of free satellite images", Journal of Photogrammetry Remote Sensing and Geoinformation Science, Volume 87, Issue 3, pp 119–122. http://dx.doi.org/10.1007/s41064-019-00074-z
- **Rasul,** A.; Dewana, A.; Saed, S., 2019**,** "Multi-model tourist forecasting: a case study Kurdistan Region of Iraq", Tourism and Travelling, 2(1). http://dx.doi.org/10.21511/tt.2(1).2019.04
- Saed, S.; Faqe, G.; **Rasul, A.**, 2019, "Water quality effects on Kidney Dieses in the slums area of Erbil City, Iraq", International Journal of Geography and Geography Education, 40. https://doi.org/10.32003/iggei.523583
- **Rasul, A.**; Balzter, H.; Ibrahim, G.; Hameed, H.; Wheeler, J.; Adamu, B.; Ibrahim, S.; Najmaddin, P., 2018, "Applying Built-Up and Bare-Soil Indices from Landsat 8 to Cities in Dry Climates", Land, 7(3), 81. https://doi.org/10.3390/land7030081
- **Rasul, A.**; Balzter, H.; Smith, C.; Remedios, J.; Adamu, B.; Sobrino, J.; Srivanit, M. and Weng, Q., 2017, "A review on remote sensing of urban heat and cool islands", Land, 6(2), 38. https://doi.org/10.3390/land6020038
- **Rasul, A.**; Balzter, H.; and Smith, C., 2017, "Applying a normalized ratio scale technique to assess influences of urban expansion on land surface temperature of the semi-arid city of Erbil.", International Journal of Remote Sensing, 38. http://dx.doi.org/10.1080/01431161.2017.1312030
- **Rasul, A.**; Balzter, H.; and Smith, C., 2016, "Diurnal and Seasonal Variation of Surface Urban Cool and Heat Islands in the Semi-Arid City of Erbil, Iraq", Climate. https://doi.org/10.3390/cli4030042
- **Rasul, A.**; Balzter, H.; and Smith, C., 2015, "Spatial Variation of the Daytime Surface Urban Cool Island During the Dry Season in Erbil, Iraqi Kurdistan, from Landsat 8", Urban Climate. http://dx.doi.org/10.1016/j.uclim.2015.09.001

REVIEWER OF JOURNALS

- Transactions on Geoscience and Remote Sensing
- Remote Sensing
- International Journal of Environmental Research and Public Health
- International Journal of Geo-Information
- IEEE Access
- Urban Climate
- Sustainability
- Climate
- Sustainable Cities and Society
- Spatial Information Research
- SAGE Open
- Remote Sensing Applications: Society and Environment

- Landscape and Ecological Engineering
- Arabian Journal of Geosciences