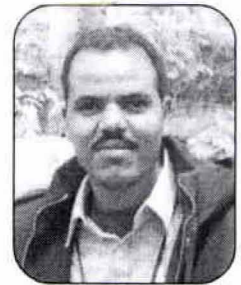


## Ahmed Hussein Kherashy Mohamed



### Work Address

1- Mathaf El Matariya st.,  
El Matariya – Cairo- Egypt

### Home Address

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Title: Head of Rangeland Research Unit, Sustainable Development Center for Matrouh Resources, Marsa Matrouh, Egypt  
Researcher, Department of Plant Ecology and Rangeland Management, Desert Research Center, Cairo - Egypt

Major Field of Interest: Rangeland Ecology & Management

Minor Field of Interest: Remote Sensing & Geographic Information Systems

### PERSONAL INFORMATION

Date of Birth: October, 1978

Nationality: Egyptian

Married with 2 children

### EDUCATION

Ph.D., Range Science, New Mexico State University, Las Cruces, New Mexico, United States of America, 2011 (Minor in Geographic Information Systems)

Research project: Quantifying vegetation response to grazing intensity and precipitation on Chihuahuan desert rangeland using remote sensing and GIS.

M.S., Agronomy, Ain Shams University, Cairo, Egypt, 2005

Research Project: Performance of *Kochia indica* as a halophytic fodder shrub under different levels of salinity Wadi Sudr,

B.S., Agronomy, Assiut University, Assiut, Egypt, 2000 (with honor)

### PROFESSIONAL EXPERIENCE

2013 – Present      Head of Rangeland Research Unit, Sustainable Development Center for Matrouh Resources, Marsa Matrouh, Egypt

2011 – Present	Researcher, Department of Plant Ecology and Range Management, Desert Research Center, Cairo, Egypt
2007 – 2011	Graduate Teaching/Research Assistant, New Mexico State University, USA
Summer 2009	GIS Image Interpretation Assistant, USDA –ARS Jornada Experimental Range, Las Cruces, New Mexico, USA
2001 - 2006	Research Assistant, Department of Plant Ecology and Range Management, Desert Research Center, Cairo, Egypt

### TEACHING ASSISTANT EXPERIENCE

Range Science program, New Mexico State University, USA

2007 - 2011 (RgSc 294) Rangeland Resource Management

2007 - 2011 (RgSc 317) Rangeland Communities

2010 - 2011 (RgSc 325) Rangeland Restoration Ecology

2009 - 2010 (RgSc 452) Rangeland analysis

### RESEARCH INTERESTS

My research and experiences are varied; they include the fields of rangeland ecology & management, remote sensing, landscape ecology, geographic information systems, high resolution satellite imagery analysis, and rangeland restoration in arid/semiarid ecosystems. However my current research includes:

- Using remote sensing and GIS techniques to study desert vegetation dynamics and detect arid land vegetation change overtime in response to climate and livestock grazing
- Mapping arid rangeland vegetation and evaluate shrub encroachment impact in in Egypt and southwestern USA desert landscapes.
- Development of rangeland monitoring and management methods using high resolution satellite imagery (QuickBird).
- Evaluate the influence of livestock grazing management practices on vegetation dynamics and livestock productivity in desert Rangelands.
- Rangeland plants-animal relations and using GPS, GIS, and high resolution vegetation maps to track livestock distribution
- Development and improvement of forage production and cultivated pastures at arid desert lands.
- Evaluate the short and long term influences of light vs. conservative cattle grazing on forage production and vegetation dynamics in Chihuahuan desert.

- Forest plantations establishment and management in marginal desert lands using treated waste water.
- Using remote sensing and GIS for forest inventory and monitoring and development of Egyptian forest plantations information system.

## HONORS AND AWARDS

- Outstanding Graduate Assistantship Award 2010, Graduate School, New Mexico State University Las cruces, New Mexico, USA, June, 2010
- Second Place Award in the Poster Competition, Ph.D. level, Society for Range Management 63rd Annual Meeting Denver, CO, USA, Feb. 7-11, 2010
- Conference Travel Award 2010, Graduate School, New Mexico State University Las cruces, New Mexico, USA, April, 2010
- Recipient of Ph.D. Scholarship from Ministry of Higher Education, Egypt (2007 – 2011) to pursue a Ph.D. in Rangeland Ecology and Management from USA

## PROFESSIONAL AND HONOR SOCIETIES

- Society for Range Management, USA
- American Society for Photogrammetry and Remote Sensing, USA
- New Mexico Section of the Society for Range Management, USA
- Egyptian Society for Rangeland
- Sam Steel Society at New Mexico State University, USA

## LANGUAGE PROFICIENCY

- English: fluent
- Arabic: fluent (Native Language)

## RESEARCH PROJECTS

- Using high spatial resolution satellite imagery to assess impact of mesquite invasion on Egypt Southeastern Desert Rangelands. Principle investigator, STDF, Egypt 2013.
- Project coordinator: Establishment of Plantation Forests and Development of Sustainable forestry in Desert Land of Egypt using Sewage water: Education and Research. Germany Government (DAAD, Tech. University Munchen) and Egyptian Government. 2011- 2014.
- Research team: Collecting and conservation of endogens rangelands plant species seeds in North western coast of Egypt, GEF 2012 – 2014.

- Participant at the project titled: "Forest restoration in Algeria, Egypt, Morocco and Tunisia using treated wastewater to sustain smallholders' and farmers' livelihoods". FAO, 2012.
- Research team: "Safely and sustainable use of nonconventional water in afforestation and sand dune fixation, RADF, Egypt 2012- 2014.

## COMPUTER, SOFTWARE & OTHER SKILLS

- GIS: ArcGIS/ArcInfo, Spatial Analyst, Tracking Analyst, 3D Analyst
- Digital Image Processing and Analysis: Erdas Imagine and ENVI
- Statistics: SAS 9.2 - Statistical Analysis Software
- Microsoft office 2010: Word, Excel, PowerPoint
- Operating Systems: Windows XP, Vista, Windows 7.
- Defensive Driving Course, NMSU Driving Permit to drive a University or State Vehicle (2007 – present)
- International Computer Driving Licence (ICDL) 08/03/2006

## PUBLICATIONS

- 1- Mohamed, A. H., J. L. Holechek, D. W. Bailey, C. L. Campbell and M. DeMers. 2011. Mesquite encroachment impact on southern New Mexico Rangelands: A Remote sensing and GIS approach. *Journal of Applied Remote Sensing*: 5, 053514 doi:10.1117/1.3571040
- 2- Ali, M and A. H. Mohamed. 2013. Characterizing camels grazing habitat in a desert rangeland at North Western of Egypt. Accepted to be presented and published at The 2nd International Conference on Optimum Utilization of Salt Affected Ecosystems in Arid Regions, that will be held in Cairo, Egypt, 9- 12 September, 2013.
- 3- Mohamed, A. H., J. L. Holechek, D. W. Bailey, and C. L. Campbell. 2010. Using high resolution satellite imagery to evaluate the relationship between honey mesquite canopy cover and forage production on Chihuahuan Desert. Proceedings of the ASPRS Annual Conference, 26 – 30 April, San Diego, California, American Society for Photogrammetry and Remote Sensing, Bethesda, Maryland, unpaginated CD-ROM.
- 4- Mohamed, A. H., J. L. Holechek, D. W. Bailey, and C. L. Campbell. 2010. Evaluation of QuickBird satellite imagery for identifying dominant vegetation

- types in Chihuahuan Desert Rangelands. 63rd Annual Meeting of the Society for Range Management, Denver, CO, Feb. 7-11, Paper No. O-191
- 5- Mohamed, A. H., J. L. Holechek, D. W. Bailey, and C. L. Campbell, A. F. Cibils, and M. N. DeMers. 2010. Using high spatial resolution satellite imagery to detect vegetation change in response to precipitation and grazing intensity in Chihuahuan Desert Rangelands. 63rd Annual Meeting of the Society for Range Management, Denver, CO, Feb. 7-11, Paper No. P-41.
  - 6- Mohamed, A. H., J. L. Holechek, D. W. Bailey, and C. L. Campbell, A. F. Cibils, and M. N. DeMers. Detecting Chihuahuan Desert Rangeland vegetation change with high spatial resolution satellite imagery. (In preparation for submission to Rangeland Ecology & Management)
  - 7- Mohamed, A. H., D. W. Bailey, J. L. Holechek, A. Cibils, M. DeMers and C. L. Campbell. 2011. Monitoring cattle grazing distribution in arid rangelands with GPS, GIS and high spatial resolution satellite imagery. The IX International Rangeland Congress in Rosario Argentina, April 2-8, 2011
  - 8- Mohamed, A. H., J. L. Holechek, and D. W. Bailey. 2011. Estimating desert rangelands forage production with high spatial resolution satellite imagery and vegetation indices. 64rd Annual Meeting of the Society for Range Management, Billings, Montana, Feb. 6-11, 2011.
  - 9- Kherashy\*, A. H.; M. Sh. Reiad; M. Yassin and A. A. El-Houssini. (2004) Growth response of *Kochia indica* Wight to irrigation water salinity level, moisture stress and cutting intervals. Zagazig J. Agric. Res., Vol. 31 (3) 829-842.
  - 10- Reiad M. Sh.; M. Yassin; A. A. El-Houssini and A.H. Kherashy\* (2005) Response of kochia forage yield to some crop management system under South Sinai conditions. The 11<sup>th</sup> Conference of Agronomy, Agron, Dept., Fac. Agric., Assiut Univ., Nov. 15-16. P 587-599.
  - 11- Reiad M. Sh.; M. Yassin; A. A. El-Houssini and A.H. Kherashy\* (2005) Chemical composition of kochia forage under salinity treatments, cutting and irrigation intervals. The 11<sup>th</sup> Conference of Agronomy, Agron, Dept., Fac. Agric., Assiut Univ., Nov. 15-16. P 587-599.
  - 12- Khorshed, M. M.; M. Sh. Reiad; M. Yassin; A. A. El-Houssini and A. H. Kherashy\* (2005) Estimating the nutritive values of *Kochia indica* hay in the rations of sheep. JKAU, Met., Env. & Arid land Agric. Sci., Vol. 12 p 8-11.

\*I had my last name changed in 2007 from Kherashy to Mohamed

## CONFERENCES, ORAL PRESENTATION & TRAINING COURSES

- Oral Presentation and Trainer at The Training and study visits on Desertification in Egypt (8). Organized by African-Asian Rural Development Organization (AARDO) in collaboration with Desert Research Center, Cairo, Egypt, 22 – 30 December, 2013.
- Attending: 2nd Network Meeting for Transformation Partnership Projects. A workshop by DAAD Cairo Office, 11th of November 2013, Cairo, Egypt.
- Attending summer school in management of forestry and wastewater in Germany between June 29th and July 7th, 2013, organized by DAAD in collaboration with the Institute of Silviculture, Technische Universität München (TUM) and the Egyptian project partners.
- Oral Presentation titled: Animal Care in Relation to Range Management. In the training course “Animal Care” organized by ACARDA and Agriculture Research Center, APRI, Sakha Research Station, Kafer ElShakh, Egypt from April 7 – 18, 2013.
- Oral Presentation titled: Environmental Risks of Overgrazing. Matrouh Information Center, Marsa Matrouh, Egypt, April 1, 2013.
- Oral Presentation and Trainer at the training course: Sustainable development of the Egyptian desert lands. Desert Research Center, Cairo, Egypt February 24-28, 2013. My presentation titled: using high spatial resolution satellite imagery for estimating carrying capacity and grazing intensity.
- Attending training course: Safely and Sustainable use of treated waste water for afforestation and sand dunes fixation. Desert Research Center, Cairo, Egypt January 29-31, 2013.
- Attending training course: Sheep and Camels production under Egyptian Desert Conditions. Desert Research Center, Cairo, Egypt January 20-23, 2013.
- Participant at: Forest restoration in Algeria, Egypt, Morocco and Tunisia using treated wastewater to sustain smallholders’ and farmers’ livelihoods”. A workshop to present activities implemented in 2012 and future developments. Organized by FAO and Undersecretary of Afforestation and Environment. Egyptian International Center for Agriculture 12 December 2012.
- Attending: Forest restoration in Algeria, Egypt, Morocco and Tunisia using treated wastewater to sustain smallholders’ and farmers’ livelihoods”. Forest Management Plan-Serapium Forest Ismailia, Results from the integrated forest inventory training. Technical Meeting, 11 December 2012, FAO Regional Office, Cairo, Egypt.

- Oral Presentation and Trainer at The Training and study visits on Desertification in Egypt (7). Organized by African-Asian Rural Development Organization (AARDO) in collaboration with Desert Research Center, Cairo, Egypt, 04 – 12 December, 2012.
- Attending workshop on: New study modules for higher Agriculture education in Plantation Forest Management and Water Resource Management. November, 03-08, 2012. Cairo, Egypt.
- Participant at The advanced course “Integrated Forest Inventory Training”. Organized by Food and Agriculture Organization of The United Nations (FAO) and Partner-Organizations, held From 09 – 27 September 2012 at Serapium Forest, Ismailia, Egypt.
- Attending: The 11<sup>th</sup> Conference of Agricultural Development Research. Faculty of Agriculture, Ain Shams University, Shobra El Khema, El Khatuobia, Egypt, March 27 – 30, 2012.
- Oral Presentation “Satellite Remote Sensing for Sound Rangeland Monitoring and Assessment to Combat Desertification” at Training and study visits on Desertification 6. Organized by Afro-Asian Rural Development Organization (AARDO) in cooperation with Desert Research Center. Cairo, Egypt, 20 – 27 November, 2011.
- Attending and poster presentation at: 64<sup>rd</sup> Annual Meeting of the Society for Range Management, Billings, Montana, Feb. 6-11, 2011.
- Attending and oral presentation at: The New Mexico section of the Society for Range Management 2011 Winter Meeting: Restoring Rangelands: Applied Ecology, Persistent Practice. Hotel Encanto, Las Cruces, New Mexico, USA January 6 -7, 2011.
- Attending and oral presentation at: The American Society for Photogrammetry and Remote Sensing 2010 Annual Conference: Opportunities for Emerging Geospatial Technologies. San Diego, California, April 26-30.
- Attending and oral presentation at: Graduate Research and Arts Symposium, New Mexico State University, Las Cruces, New Mexico. March 2-3, 2010
- Attending, oral presentation and poster at: The 63<sup>rd</sup> Annual Meeting of the Society for Range Management: Working Landscapes....Providing for the Future, Denver, CO, Feb. 7-11, 2010.
- Attending and oral presentation at: The New Mexico section of the Society for Range Management 2010 Winter Meeting: K-12 Rangeland Education Opportunities

in New Mexico: How can NM-SRM Section become more involved? Albuquerque, New Mexico January 7 -8, 2010.

- Attending: The 18th Symposium of the Jornada Basin Long Term Ecological Research Program at New Mexico State University and the USDA, Agricultural Research Service, Jornada Experimental Range, Las Cruces, New Mexico, July 16, 2009.
- Attending: Transboundary Water Crises: Learning from Our Neighbors in the Rio Grande (Bravo) and Jordan River Watersheds Conference. Corbett Center, New Mexico State University, Las Cruces, New Mexico. January 22-23, 2009
- Attending: The New Mexico section of the Society for Range Management 2010 Winter Meeting, Albuquerque, New Mexico January 8 -9, 2009.
- Attending: Range 101 Arizona Guide to Range Management & Analysis workshop, Globe, Arizona. December 4 & 5, 2007
- Attending: The XXI bi-national meeting of the Southwestern Chapter of the Society of American Foresters and Chihuahua Chapter of the Asociación de Profesionales Forestales de Mexico in Parral, Chihuahua, Mexico on October 5, 2007.
- The 2007 new graduate assistant orientation: Professional Development. Graduate School, New Mexico State University. August 20, 2007
- Intensive preparation courses for the GRE and TOEFL, AMIDEAST, Cairo, Egypt. March – June, 2006.
- New scholarship graduate student orientation organized by Culture Affairs and Mission Sector in cooperation with Preparing Leaders Institute. Ministry of Higher Education, Cairo- Egypt. February 18 – 28, 2006.
- Attending and oral presentation at: The 11<sup>th</sup> Conference of Agronomy, organized by Egyptian Society of Crop Science and College of Agriculture, Assiut University, Assiut, Egypt, November 15- 16, 2005.
- Range Resources development under arid and semi-arid conditions. Desert Research Center, Cairo, Egypt, May 3 – 8, 2003.
- Development and management of Rangeland resources under Egyptian desert condition. Desert Research Center, Cairo, Egypt, March 9 – 14, 2002