

| Name                                                                                                                                                                                                                                                                                                                        |                                                                                                              |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dr. Murodjon Sultanov                                                                                                                                                                                                                                                                                                       |                                                                                                              |                                                                                     |
| Urgench State University<br>Department of Geodesy,<br>Cartography, Geography                                                                                                                                                                                                                                                |                                                                                                              |  |
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| Place of birth: Khorerzm, Uzbekistan                                                                                                                                                                                                                                                                                        | Date of birth: 06-May-1980                                                                                   |                                                                                     |
| Education:                                                                                                                                                                                                                                                                                                                  |                                                                                                              |                                                                                     |
| 2019                                                                                                                                                                                                                                                                                                                        | PostDoc, Department of Geoecology Martin-Luther-Universität Halle-Wittenberg, University of Halle-Wittenberg |                                                                                     |
| 2017                                                                                                                                                                                                                                                                                                                        | PhD , National University of Uzbekistan/Julius-Maximilians-University, Würzburg                              |                                                                                     |
| 2005                                                                                                                                                                                                                                                                                                                        | MSc diploma “Ecology”, “Eco-GIS department”, Tashkent Irrigation and Melioration Institute                   |                                                                                     |
| 2003                                                                                                                                                                                                                                                                                                                        | Diploma Geography, Urgench state university                                                                  |                                                                                     |
| Professional Experience:                                                                                                                                                                                                                                                                                                    |                                                                                                              |                                                                                     |
| Since 2007                                                                                                                                                                                                                                                                                                                  | Teacher at Urgench State University                                                                          |                                                                                     |
| 2015-2017                                                                                                                                                                                                                                                                                                                   | PhD student, National University of Uzbekistan/University of Würzburg                                        |                                                                                     |
| Since-2012                                                                                                                                                                                                                                                                                                                  | GIS specialist at KRASS-NGO (Khorezm Rural Advisory Support Service)                                         |                                                                                     |
| 2006-2011                                                                                                                                                                                                                                                                                                                   | GIS specialist, ZEF/UNESCO Khorezm project, Uzbekistan                                                       |                                                                                     |
| Research Topics                                                                                                                                                                                                                                                                                                             |                                                                                                              |                                                                                     |
| Land system research at agriculture: Land and water management, Focus: Aral Sea Basin<br>Remote Sensing: Agro-ecological biophysical parameters using optical data from satellites                                                                                                                                          |                                                                                                              |                                                                                     |
| Relevant Publications:                                                                                                                                                                                                                                                                                                      |                                                                                                              |                                                                                     |
| <b>Remelgado, Ruben; Zaitov, Sherzod; Kenjabaev, Shavkat; Stulina, Galina; Sultanov, Murodjon; Ibrakhimov, Mirzakhayot; Akhmedov, Mustakim; Dukhovny, Victor; Conrad, Christopher.</b> A crop type dataset for consistent land cover classification in Central Asia. <i>Sci. Data</i> <b>7</b> , 1–6 (2020).                |                                                                                                              |                                                                                     |
| <b>Mirzakhayot Ibrakhimov, Usman Khalid Awan, Murodjon Sultanov, Akmal Akramkhanov, Kakhramon Djumaboev, Christopher Conradd, J. L.</b> Combining remote sensing and modeling approaches to assess soil salinity in irrigated areas of the Aral Sea Basin. <i>Cent. Asian J. Water Res.</i> <b>5</b> , 65–81 (2019).        |                                                                                                              |                                                                                     |
| <b>Sultanov, M., Ibrakhimov, M., Akramkhanov, A., Bauer, C. &amp; Conrad, C.</b> Modelling End-of-Season Soil Salinity in Irrigated Agriculture Through Multi-temporal Optical Remote Sensing, Environmental Parameters, and In Situ Information. <i>PFG - J. Photogramm. Remote Sens. Geoinf. Sci.</i> <b>86</b> , (2018). |                                                                                                              |                                                                                     |
| <b>Amit Kumar Basukala, Carsten Oldenburg, Jürgen Schellberg, Murodjon Sultanov &amp; Olena Dubovyk.</b> Towards improved land use mapping of irrigated croplands: performance assessment of different image classification algorithms and approaches. <b>2017.</b> European Journal of Remote Sensing. NO. 50:1. 187-201.  |                                                                                                              |                                                                                     |
| <b>Kenjabaev Sh. and Sultanov M.</b> <b>2016.</b> Estimation of groundwater contribution to crop water use in Kulavat irrigation command area in Khorezm, Uzbekistan. International Journal of Agricultural Policy and Research Vol.4. (11). 249-255.                                                                       |                                                                                                              |                                                                                     |
| <b>Christopher Conrad, Gunther Schorcht, Bernhard Tischbein, Sanjar Davletov, Murodjon Sultanov and John P.A. Lamers.</b> <b>2012.</b> Agro-Meteorological Trends of Recent Climate Development in Khorezm and Implications for Crop Production. Cotton, Water, Salts and Soums. 25-36.                                     |                                                                                                              |                                                                                     |
| <b>Usman Khalid Awan, Bernhard Tischbein, Christopher Conrad, Murodjon Sultanov, John P. A. Lamers.</b> <b>2012.</b> Irrigation and Drainage Systems in Khorezm, Uzbekistan. ZEF work papers for sustainable development in Central Asia #12. 1-45.                                                                         |                                                                                                              |                                                                                     |

**Christopher Conrad, Sebastian Fritsch, Sylvia Lex, Fabian Löw, Gerd Rücker, Gunther Schorcht, Murodjon Sultanov, John Lamers. 2011.** Potential of the 'Red Edge' channel of RapidEye to distinguish and monitoring of agricultural crops grown on the example of Uzbekistan's Khorezm irrigation system. RESA workshop 4. 203-2017/

#### **Graduate Advisory Experience**

B.Sc. students (Urgench State University),

MSc. or Diploma students (TIMI), and

PhD students (National University of Uzbekistan, Julius-Maximilians-University, Würzburg)