



ALISHER MIRZABAEV

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MAJOR AREAS OF EXPERTISE

Economics of Land Use and Land Degradation; Ecosystems Restoration; Climate Change Impacts, Adaptation, and Mitigation; Nature-based Solutions; Agri-Food Systems Transformations; Water-Energy-Food Security Nexus, Renewable Energy

EMPLOYMENT

Senior Scientist, International Rice Research Institute (IRRI), Los Baños, Philippines, Sep, 2023-Present

Senior Agricultural Economist, [Unique land use and forestry](#). Freiburg, Germany. April, 2023 – Sep 2023.

Acting Professor and Chair, Production Economics Group, [Institute for Food and Resource Economics \(ILR\)](#), University of Bonn, Germany. 2022-2023

Senior Researcher, [Center for Development Research \(ZEF\)](#), University of Bonn. 2012-2023.

Economist, International Center for Agricultural Research in the Dry Areas ([ICARDA](#)), Central Asia and Caucasus Office. 2006-2012.

EDUCATION

Habilitation in Agricultural Economics: Privatdozent, *Venia Legendi* (Academic degree in German-speaking countries qualifying for university teaching and independent supervision of students at full professor level). University of Bonn, 2021. Habilitation thesis: “Economics of climate change, land use and land degradation”.

PhD in Agricultural Economics from the University of Bonn, Germany, 2009-2013. PhD thesis: “[Climate Volatility and Change in Central Asia: Economic Impacts and Adaptation](#)” (Supervisors: Joachim von Braun, Thomas Heckeley).

Master’s degree in “Gestion et Dynamisation du Développement” (Management of Development Projects), University of Pierre Mendès France in Grenoble, France, 2003-2004. Thesis title: “Le Secteur laitier en Turquie (The Turkish Dairy Sector)”.

Bachelor’s degree in International Economics from the University of World Economy and Diplomacy in Tashkent, Uzbekistan. 1998-2003. Thesis title: “Use of financial derivatives in hedging exchange risks in international trade”.

RESEARCH LEADERSHIP ROLES

- A Lead Researcher in several international research projects with multi-disciplinary and multi-national teams:
 - Economics of Land Degradation (global, with focus on Ethiopia, Kenya, Tanzania, Malawi, Niger, Senegal, China, Bhutan, India, Uzbekistan, Argentina, Russia), 2013-2016
 - Bioenergy, Bioeconomy and Food Security (global, focus on India, China, Ethiopia), 2014-2016
 - Water-Energy-Food Security Nexus in the Eastern Nile River Basin (Eastern Nile River basin: Ethiopia, Sudan, Egypt), ZEF component, 2015-2018
 - Transboundary Water Governance in the Olifants river basin (South Africa-Mozambique), 2017-2021
 - Cost and benefit assessment of land restoration in the Great Green Wall initiative (Sahel region), 2020-2021
 - Harmonization of land restoration targets of the Rio Conventions in Rwanda, 2022-2023
 - Conceptualizing and Operationalizing Agri-Food Systems Transformations in German Development Cooperation, 2023
 - Synergies and tradeoffs of the Rio Conventions in Central Asia, 2024

RESOURCE MOBILIZATION

- 2022-2023: Harmonization of land restoration targets of the Rio Conventions in Rwanda, funded by Economics of Land Degradation Initiative – 105,000 Euros
- 2020-2021: FAO-funded project on “Cost and benefit assessment of land restoration in the Great Green Wall initiative” – 50,000 Euros
- 2018-2019: BMBF-funded project - 60,000 Euros

- 2017-2020: BMBF-funded project “Transboundary Water Governance in the Olifants river basin (South Africa-Mozambique)”- 188,000 Euros (ZEF component)
- 2015-2018: German Ministry for Economic Cooperation (BMZ)-funded project “Water-Energy-Food Security Nexus in the Easter Nile River Basin (Eastern Nile River basin: Ethiopia, Sudan, Egypt)”, ZEF component - 405,000 Euros

CONTRIBUTIONS TO PROFESSION AND SOCIETY

- Member of the Scientific Advisory Committee of the [Economics of Land Degradation \(ELD\) Initiative](#)
- Member of the Advisory Committee of [Welthungerhilfe](#)
- Associate Editor, [Climate and Development Journal](#)
- Associate Editor, [Central Asian Journal of Sustainability and Climate Change Research](#)
- Former Review Editor: [Land, Livelihoods and Food Security](#), a specialty of Frontiers in Sustainable Food Systems (2019-2022)
- Former Managing Editor, [ZEF Discussion paper series \(2018-2022\)](#)
- Member of ZEF Research Ethics Review Board (2021-2023)
- Served as a reviewer for such journals as Nature Sustainability, Nature Climate Change, Science Advances, Land Use Policy, Food Security, Climate Risk Management, Renewable Agriculture and Food Systems, Population and Environment, Global Food Security, Habitat International, Environmental Science and Policy, Land Degradation and Development, Journal of Environmental Management, Remote Sensing Applications: Society and Environment, Journal of Cleaner Production, Journal of Arid Land, and Agricultural Water Management.
- Served as a proposal reviewer for German Federal Ministry for Education and Research (BMBF), Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), The Dutch Research Council (NWO).

CONTRIBUTIONS TO INTERNATIONAL SCIENTIFIC PROCESSES

- Coordinating Lead Author (CLA), [IPCC Special Report on Climate and Land](#), Chapter on Desertification (2017-2019)
- Lead Author, [IPCC Sixth Assessment Report](#), Working Group 2 (2019-2022)
- Cross-Chapter Paper Lead on [Deserts, semiarid areas, and desertification](#), under Climate Change 2021: Impacts, Adaptation, and Vulnerability, Working Group II Contribution to the IPCC Sixth Assessment Report (2019-2022)
- A contributor to T20 (think tanks) Task Force on “Towards Ending Hunger and Sustainable Agriculture” under the German G20 Presidency in 2017 and Argentinian G20 Presidency in 2018
- Working Group Leader, G20 Land Restoration Initiative Conference in Bengaluru, India (2023)

ADVISORY AND CONSULTING ROLES

Advised:

- United Nations Convention to Combat Desertification (UNCCD)
- World Food Program (WFP)
- German Society for International Cooperation (GIZ)
- International Center for Agricultural Research in the Dry Areas (ICARDA)
- Eurasian Center for Food Security
- The World Bank Group
- World Meteorological Organization (WMO)
- Food and Agriculture Organization of the United Nations (FAO)
- Norwegian Institute of International Affairs (NUPI)

AWARDS

- Runner-Up, PEGNet (Poverty Reduction, Equity and Growth Network) Best Practice Award for the work on Economics of Land Degradation. PEGNet Annual Conference 2016 in Kigali, Rwanda
- [Nils Westermarck Prize for Best Visual Paper](#) at the 29th tri-annual International Conference of Agricultural Economists (ICAE) in Milan, Italy, on August 13, 2015, as a co-author to Oliver Kirui in the paper on “Costs of Land Degradation in East Africa”

- PhD studies scholarship (2009-2012). International Postgraduate Studies in Water Technologies Program, German Federal Ministry for Education and Research
- Master's degree studies scholarship (2003-2004). Open Society Institute and Centre National des Œuvres Universitaires et Scolaires (Cnous, France)
- Bachelor's degree studies scholarship (1998-2003). Government of Uzbekistan

RESEARCH COLLABORATION NETWORKS

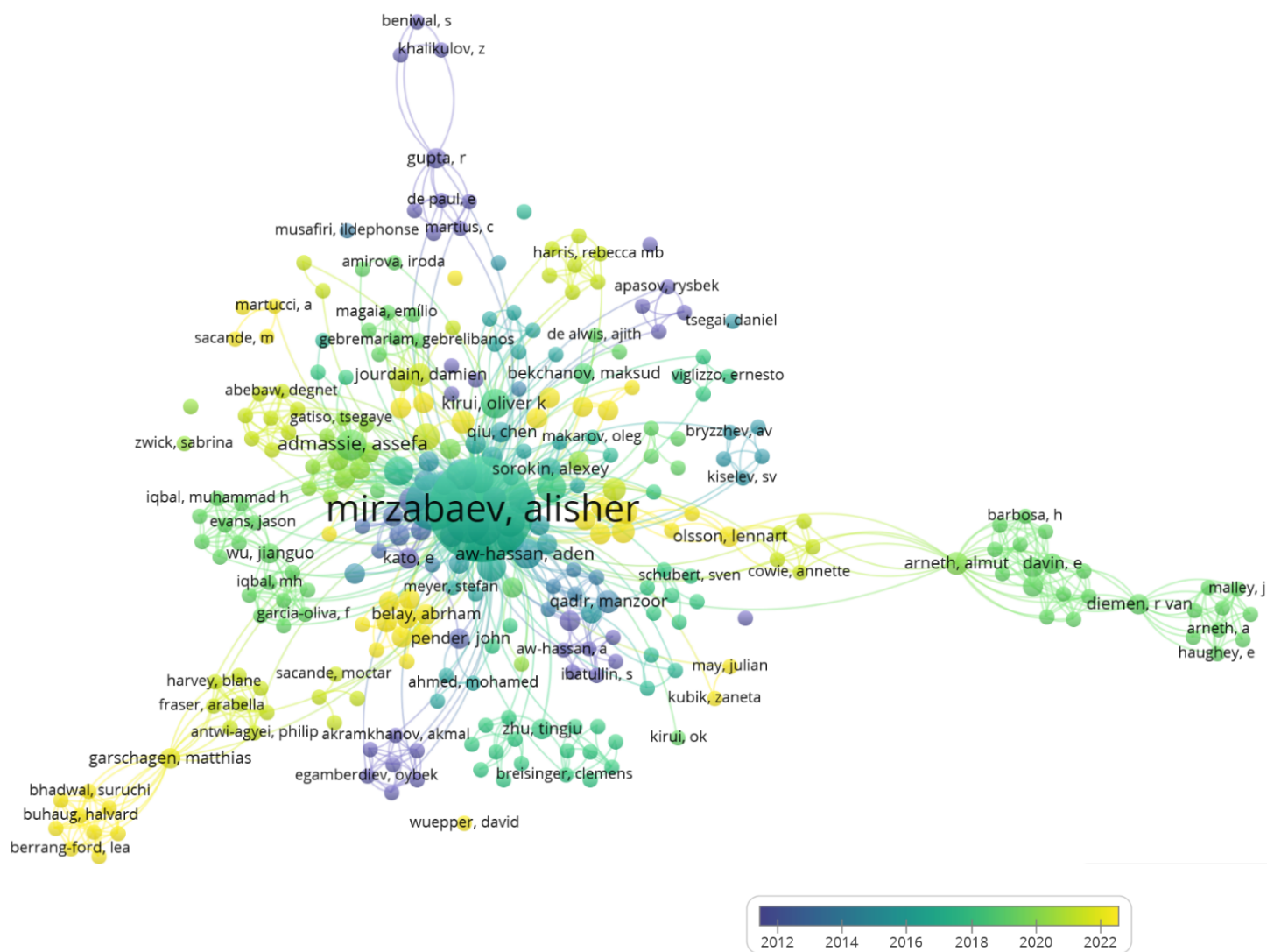


Figure 1. Co-authorship networks (in total: 306 co-authors)

Note: Specific publications from these collaborations are given in Complete Publications List

PUBLIC AND MEDIA ENGAGEMENTS

- Several dozens of keynotes and side-event presentations during the Rio Conventions' Conferences of Parties (COPs), IPCC outreach events, various scientific conferences, science-policy interface events, and public townhall meetings
- Thematic interviews to Financial Times, Bloomberg, Wall Street Journal, Deutschland Funk, India times, Uzbek TV, Eurasianet, Deutsche Welle, and others

TEACHING

- **Investment and Financing in Agriculture.** Master's degree program on Agricultural and Food Economics (AFECO) of the University of Bonn, Germany. 2022-2023, Winter Semester (four hours per week)
- **Agricultural Production Economics.** Master's degree program AFECO of the University of Bonn, Germany. 2022-2023, Winter Semester (four hours per week)
- **Production Economics and Farm Management.** Master's degree program AFECO of the University of Bonn, Germany. 2022, Summer Semester (two hours per week)
- **Research Seminar in Agribusiness.** Master's degree program AFECO of the University of Bonn, Germany. 2022, Summer Semester (one hour per week)
- **Advanced Microeconomics,** PhD Program at Center for Development Research (ZEF), University of Bonn, Germany, 2022 (one week course)
- **Climate Change Economics,** PhD Program at ZEF, University of Bonn, Germany, 2017-2022, Winter Semesters (three-day course).
- **Development Economics,** Master's degree program AFECO of the University of Bonn, Germany. 2018-2022, Summer Semesters (four hours per week)
- **Land Degradation and Health.** Global Health Master's degree Program at ZEF, University of Bonn. Germany. 2018, Summer Semester (one-day course)
- **Economics of Land Degradation.** PhD Program at ZEF, University of Bonn, Germany. 2013-2018, Winter Semesters (three-day course)
- **Sustainable Energy.** PhD Program at ZEF, University of Bonn, Germany. 2013-2017, Winter Semesters (one-day course)

- **Modelling Water-Energy-Food Nexus.** PhD Program at ZEF, University of Bonn, Germany. 2017-2018, Winter Semester (one-day course)
- **Polices and Regulations in the Energy-Agriculture Nexus.** Massive Open Online Course (MOOC) under “Powering Agriculture: An Energy Grand Challenge for Development” (PAEGC) program, March 2016 (one week course, online)

SUPERVISION OF PHD AND MASTER STUDENTS

- **Advised 13 PhD students:**
 - Oliver Kiptoo Kirui. Economics of Land Degradation, Sustainable Land Management and Poverty in Eastern Africa
 - Evelyne Nyathira Kihii. Pastoral Practices, Economics, and Institutions of Sustainable Rangeland Management in Kenya
 - Helen Berga Paulos. The Water-Energy-Food Nexus in the Eastern Nile Basin: Transboundary Interlinkages, Climate Change and Scope for Cooperation
 - Essa Chanie Mussa. Long-term effects of childhood work on human capital formation, migration decisions, and earnings in rural Ethiopia
 - Varun Gaur. Decentralized energy in India and its synergies with water-energy-food security (WEF) nexus.
 - Ildephonse Musafiri. The Determinants of Long-Term Growth in Smallholder Agriculture in Rwanda: An Intergenerational Analysis
 - Alisher Ergashev. How Fruit Consumption Might Be Fruitful for the Economy: Analyzing Effects of Improvements in Fruit and Vegetable Availability and Accessibility in Uzbekistan
 - Nina Pkhikidze. Measuring the Impact of Road Infrastructure in Developing Countries, Armenia, and Georgia.
 - Rahel Deribe Bekele. Essays on Irrigation Systems of Ethiopia: Institutional and Technological Performance Analysis
 - Qiu Chen. Household biomass energy choice and its policy implications on improving rural livelihoods in Sichuan, China
 - Emily Amondo. Climate Variability and Health Adaptation: Effects on Human Health Outcomes, Food security and Welfare in Uganda
 - Abdulrasheed Isah. Income diversification for climate change adaptation in Nigeria.
 - Cristhina Llerena. Climate change impact on poverty, inequality, and food security in Ecuador and Latin America countries
- **Supervised 7 PhD students:**
 - Yauheniya Shershunovich. Individuals’ Engagement in Sustainable Consumption in Belarus

- Kadio Angaman. Drivers of land degradation in trays ecosystems as modulated under a changing climate: case study of Cote d'Ivoire.
- Andre de Castro. The role of transaction costs in strengthening agricultural market linkages to achieve higher welfare in Tanzania
- Bekele Feyisa. Adoption of Milk Safety Practices and its Impacts on Food and Nutrition Security: The Case of Dairy Farmers of the Central and Eastern Ethiopia
- Ebrima Ceesay. Vulnerability assessment for households in West Africa: Evidence from rural Gambia
- Aminata Balde. Evaluation and Prevention food insecurity in climate change in west Africa: Case study of Senegal

- **Supervised 3 Master's degree students:**

- Oluwaseun Adedeji. Drought impacts on rural food security in Nigeria
- Daniel Agbenyega. Increasing technical efficiency of cocoa production in Southern Ghana
- Paula Rothenberger. Time-Space Analysis of Economic Costs and Benefits of Agroforestry in Kaffrine, Senegal