

# ALISHER MIRZABAEV

Production Economics Group,  
Institute for Food and Resource Economics (ILR), University of Bonn  
Meckenheimer Allee 174, D-53115 Bonn, Germany  
Email: [almir@uni-bonn.de](mailto:almir@uni-bonn.de), Tel: +49 (0) 228 / 73-2891  
Mobile: +49 175 61 79 167

## MAJOR AREAS OF EXPERTISE

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Economics of Land Use and Land Degradation, Ecosystems restoration, Climate Change Impacts and Adaptation, Water-Energy-Food Security Nexus

## EMPLOYMENT

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Acting Professor (Lehrstuhlvertreter), Production Economics Group, Institute for Food and Resource Economics (ILR), University of Bonn, Germany. 2022-present

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

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

Financial auditor, cotton ginning company Mirishkor LLC, Dagrif Group. 2004-2006.

## EDUCATION

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Habilitation in Agricultural Economics. Privatdozent (Professorial academic degree in German-speaking countries). *Venia Legendi* (Academic qualification for University teaching). 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, 2009-2012. Thesis title: "[Climate Volatility and Change in Central Asia: Economic Impacts and Adaptation](#)" (Supervisors: Joachim von Braun, Thomas Heckeley).

Master Degree on "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".

## TEACHING

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**Investment and Financing.** Master study program on Agricultural and Food Economics (AFECO) of the University of Bonn, Germany. 2022-2023, Winter Semester

**Agricultural Production Economics.** Master study program on Agricultural and Food Economics (AFECO) of the University of Bonn, Germany. 2022-2023, Winter Semester

**Production Economics and Farm Management.** Master study program on Agricultural and Food Economics (AFECO) of the University of Bonn, Germany. 2022, Summer Semester

**Research Seminar in Agribusiness.** Master study program on Agricultural and Food Economics (AFECO) of the University of Bonn, Germany. 2022, Summer Semester

**Advanced Microeconomics,** PhD Program at Center for Development Research (ZEF), University of Bonn, Germany, 2022

**Climate Change Economics,** PhD Program at Center for Development Research (ZEF), University of Bonn, Germany, 2017-2022, Winter Semesters.

**Development Economics,** Master study program on Agricultural and Food Economics (AFECO) of the University of Bonn, Germany. 2018-2022, Summer Semesters.

**Land Degradation and Health.** Global Health Master Program at Center for Development Research (ZEF), University of Bonn, Germany. 2018, Summer Semester

**Economics of Land Degradation.** PhD Program at Center for Development Research (ZEF), University of Bonn, Germany. 2013-2018, Winter Semesters.

**Sustainable Energy.** PhD Program at Center for Development Research (ZEF), University of Bonn, Germany. 2013-2017, Winter Semesters.

**Modelling Water-Energy-Food Nexus.** PhD Program at Center for Development Research (ZEF), University of Bonn, Germany. 2017-2018, Winter Semester

## PROFESSIONAL ACTIVITIES

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- 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
- 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](#)
- Former Managing Editor, [ZEF Discussion paper series](#)
- Coordinating Lead Author, [IPCC Special Report on Climate and Land](#), Chapter on Desertification
- Lead Author, IPCC Sixth Assessment Report, Working Group 2
- 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
- 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
- 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).
- Advised United Nations Convention to Combat Desertification (UNCCD), World Food Program, GIZ, International Center for Agricultural Research in the Dry Areas (ICARDA), Eurasian Center for Food Security, The World Bank, World Meteorological Organization (WMO), Food and Agriculture Organization of the United Nations (FAO), Norwegian Institute of International Affairs (NUPI).
- Advised 14 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
- Yauheniya Shershunovich. Individuals' Engagement in Sustainable Consumption in Belarus.
- 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.

## AWARDS

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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".

## RESOURCE MOBILIZATION

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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 "Contributions to IPCC Special Report on Climate Change and Land", 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 Eastern Nile River Basin (Eastern Nile River basin: Ethiopia, Sudan, Egypt)”, ZEF component, 405,000 Euros.

## PUBLICATIONS

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Google Scholar H-index: 30

Google Scholar i10-index: 53

Most downloaded publication: [Economics of Land Degradation](#), **905,000 downloads**

### *Publications with global influence:*

- (1) **Mirzabaev** A, Wu J, Evans J, Garcia-Oliva F, Hussein I, Iqbal M, Kimutai J, Knowles T, Meza F, Nedjraoui D, Tena F, Türkeş M, Vázquez R, Weltz M (2019). Desertification. In: Climate Change and Land: An IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems.
- (2) **Mirzabaev, A.**, L.C. Stringer, T.A. Benjaminsen, P. Gonzalez, R. Harris, M. Jafari, N. Stevens, C.M. Tirado, and S. Zakieldein, 2022: Cross-Chapter Paper 3: Deserts, Semiarid Areas and Desertification. In: Climate Change 2022: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 2195–2231, doi:10.1017/9781009325844.020.
- (3) Reichhuber A, N. Gerber, **A. Mirzabaev**, M. Svoboda, A. López Santos, V. Graw, R. Stefanski, J. Davies, A. Vuković, M.A. Fernández García, C. Fiati and X. Jia. 2019. The Land-Drought Nexus: Enhancing the Role of Land-Based Interventions in Drought Mitigation and Risk Management. A Report of the Science-Policy Interface. United Nations Convention to Combat Desertification (UNCCD), Bonn, Germany
- (4) Nkonya, E., **Mirzabaev, A.**, and von Braun, J. (2016). Economics of land degradation and improvement—A global assessment for sustainable development. Springer International Publishing. ISBN: 978-3-319-19167-6 (Print) 978-3-319-19168-3 (Online).
- (5) O'Neill, B., M. van Aalst, Z. Zaiton Ibrahim, L. Berrang Ford, S. Bhadwal, H. Buhaug, D. Diaz, K. Frieler, M. Garschagen, A. Magnan, G. Midgley, **A. Mirzabaev**, A. Thomas, and R. Warren, 2022: Key Risks Across Sectors and Regions. In: Climate Change 2022: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [H.-O. Pörtner, D.C. Roberts, M. Tignor, E.S. Poloczanska, K. Mintenbeck, A. Alegría, M. Craig, S. Langsdorf, S. Löschke, V. Möller, A. Okem, B. Rama (eds.)]. Cambridge University Press,

Cambridge, UK and New York, NY, USA, pp. 2411–2538,  
doi:10.1017/9781009325844.025.

### *In peer-reviewed journals*

- (1) **Mirzabaev, A.**, Stokov, A., & Krasilnikov, P. (2023). The impact of land degradation on agricultural profits and implications for poverty reduction in Central Asia. *Land Use Policy*, 126, 106530. <https://doi.org/10.1016/j.landusepol.2022.106530>
- (2) **Mirzabaev, A.**, Kerr, R. B., Hasegawa, T., Pradhan, P., Wreford, A., von der Pahlen, M. C. T., & Gurney-Smith, H. (2022). Severe Climate Change Risks to Food Security and Nutrition. *Climate Risk Management*, 39: 100473. <https://doi.org/10.1016/j.crm.2022.100473>
- (3) Amondo, E. I., Kirui, O. K., & **Mirzabaev, A.** (2022). Health gender gap in Uganda: do weather effects and water play a role? *International Journal for Equity in Health*, 21(1), 1-16. <https://doi.org/10.1186/s12939-022-01769-3>
- (4) Belay, A., Oludhe, C., **Mirzabaev, A.**, Recha, J. W., Berhane, Z., Osano, P. M., Demissie T., Olaka L., Solomon, D. (2022). Knowledge of climate change and adaptation by smallholder farmers: evidence from southern Ethiopia. *Heliyon*, e12089, 8(12), <https://doi.org/10.1016/j.heliyon.2022.e12089>
- (5) Abdourahamane, Z. S., Garba, I., Boukary, A. G., & **Mirzabaev, A.** (2022). Spatiotemporal characterization of agricultural drought in the Sahel region using a composite drought index. *Journal of Arid Environments*, 204:104789, <https://doi.org/10.1016/j.jaridenv.2022.104789>.
- (6) **Mirzabaev, A.**, & von Braun, J. (2022). True cost of food and land degradation. *Russian Journal of Economics*, 8(1), 7-15.
- (7) Chen, Q., Huang, J. and **Mirzabaev, A.** (2022) 'Does fuel price subsidy work? Household energy transition under imperfect labor market in rural China', *Energy Economics*, 107, p. 105845. doi: <https://doi.org/10.1016/j.eneco.2022.105845>.
- (8) **Mirzabaev, A.**, Sacande, M., Motlagh, F., Shyrokaya A., and Martucci, A. Economic efficiency and targeting of the African Great Green Wall. *Nature Sustainability* (2022). <https://doi.org/10.1038/s41893-021-00801-8>
- (9) Bekele RD, **A Mirzabaev**, D Mekonnen (2021) Adoption of Multiple Sustainable Land Management Practices among Irrigator Rural Farm Households of Ethiopia. *Land degradation and development*, <https://doi.org/10.1002/ldr.4091>
- (10) Kirui, O.K., **Mirzabaev, A.** & von Braun, J. Assessment of land degradation 'on the ground' and from 'above'. *SN Applied Sciences*. 3, 318 (2021). <https://doi.org/10.1007/s42452-021-04314-z>
- (11) Lisa F. Schipper, Jonathan Ensor, Aditi Mukherji, **Alisher Mirzabaev**, Arabella Fraser, Blane Harvey, Edmond Totin, Matthias Garschagen, Minal Pathak, Philip Antwi-Agyei,

- Thomas Tanner & Zoha Shawoo (2021) Equity in climate scholarship: a manifesto for action, *Climate and Development*, DOI: 10.1080/17565529.2021.1923308
- (12) Arneth A., L. Olsson, A. Cowie, K. Erb, M. Hurlbert, W. Kurz, **A. Mirzabaev** and M Rounsevell. 2021. Restoring degraded lands. *Annual Review of Environmental Resources*, <https://doi.org/10.1146/annurev-environ-012320-054809>
- (13) Stringer; L.C., **A. Mirzabaev**, T. A. Benjaminsen, R.M.B. Harris, M. Jafari, T.K. Lissner, N. Stevens, C. Tirado-von der Pahlen. 2021. Climate change impacts on water security in global drylands. *One Earth*, 4 (6): DOI: 10.1016/j.oneear.2021.05.010
- (14) Villamor G., D. Guta, **A. Mirzabaev (2020)**. Gender-specific differences of smallholder farm households perspective of food-energy-land nexus frameworks in Ethiopia. *Frontiers in Sustainable Food Systems*. doi: 10.3389/fsufs.2020.491725.
- (15) Munoz, P., S. Zwick and **A. Mirzabaev**. 2020. The impact of urbanization on Austria's carbon footprint. *Journal of Cleaner Production*, DOI: 10.1016/j.jclepro.2020.121326 .
- (16) von Braun, J., **Mirzabaev, A.**, 2019, The development of bioeconomy of the Baltic Region in the context of regional and global climate change, *Balt. Reg.*, Vol. 11, no 4, p. 20—35. doi: 10.5922/2078-8555-2019-4-2.
- (17) Bekchanov M, Md. Alam Hossain Mondal, A de Alwis, and **A. Mirzabaev**. 2019. Why adoption is slow despite promising potential of biogas technology for improving energy security and mitigating climate change in Sri Lanka? *Renewable and Sustainable Energy Reviews*, 105: 378-390
- (18) Moussa E, **Mirzabaev A.**, Admassie A, Rukundo E. and von Braun J. (2018). Does childhood work impede long-term human capital accumulation? Empirical evidence from rural Ethiopia. *International Journal of Educational Development*, <https://doi.org/10.1016/j.ijedudev.2018.09.001>.
- (19) Bekchanov M and **Mirzabaev A** (2018). Circular economy of composting in Sri Lanka: Opportunities and challenges for reducing waste related pollution and improving soil health. *Journal of Cleaner Production*, 202, 1107-1119, DOI: 10.1016/j.jclepro.2018.08.186
- (20) Qadir, M., Schubert, S., Oster, J. D., Sposito, G., Minhas, P. S., Cheraghi, S. A. M., Murtaza G., **Mirzabaev A.**, M. Saqib (2018). High-magnesium waters and soils: Emerging environmental and food security constraints. *Science of The Total Environment*, 642, 1108–1117. <https://doi.org/10.1016/j.scitotenv.2018.06.090>
- (21) Guta, D. D., Jara, J., Adhikari, N. P., Chen, Q., Gaur, V., & **Mirzabaev, A.** (2017). Assessment of the Successes and Failures of Decentralized Energy Solutions and Implications for the Water–Energy–Food Security Nexus: Case Studies from Developing Countries. *Resources*, 6(3), 24.
- (22) von Braun J and **Mirzabaev A** (2016). Land Use Change and Economics of Land Degradation in the Baltic Region. *Baltic Region*, 3/2016.

- (23) **Mirzabaev A**, Ahmed M, Werner J, Pender J, Louhaichi M. (2015). Rangelands of Central Asia: challenges and opportunities. *Journal of Arid Land*, 8(1), 93-108.
- (24) **Mirzabaev, A.**, D. Guta, J. Goedecke, V. Gaur, J. Börner, D. Virchow, M. Denich and J. von Braun. (2015). Bioenergy, food security and poverty reduction: trade-offs and synergies along the water–energy–food security nexus. *Water International*, 1:19.
- (25) **Mirzabaev, A.**, Nkonya, E., & von Braun, J. (2015). Economics of sustainable land management. *Current Opinion in Environmental Sustainability*, 15: 9-19.
- (26) Mwale, J. T., and **Mirzabaev, A.** (2015). Agriculture, biofuels and watersheds in the water-energy-food nexus: governance challenges at local and global scales. *Change and Adaptation in Socio-Ecological Systems*, 2(1), 91-93.
- (27) Kiselev SV, Krasilnikov PV, Bryzhev AV, **Mirzabaev A**, Sorokin AS, Stokov AS. (2015). Economic evaluation of degradation of agricultural lands due to land use change: a case study in Azov district of Rostov province. *Economics of agricultural and processing enterprises*, 1: 34-38, (in Russian).
- (28) **Mirzabaev A.** (2013). Impacts of Weather Variability and Climate Change on Agricultural Revenues in Central Asia. *Quarterly Journal of International Agriculture* 52 (3): 179-194.
- (29) Kienzler K, Lamers J, McDonald A, **Mirzabaev A**, Ibragimov N, Egamberdiev O, Ruzibaev E and Akramkhanov A, (2012). Conservation agriculture in Central Asia - what do we know and where do we go from here?" *Field Crops Research*, 132, 95-105.
- (30) Nkonya E, Winslow M, Reed M, Mortimore M and **Mirzabaev A**, (2011). Monitoring and assessing the influence of social, economic and policy factors on sustainable land management in drylands, *Land Degradation & Development*, 22: 240–247
- (31) Vyshpolsky F, Mukhamedjanov K, Bekbaev U, Ibatullin S, Yuldashev T, Noble A, **Mirzabaev A**, Aw-Hassan A and Qadir M, (2010). Optimizing the rate and timing of phosphogypsum application to magnesium-affected soils for crop yield and water productivity enhancement, *Agricultural Water Management*, 97 (9): 1277-1286.

### **Peer-reviewed books and book chapters**

- (1) **Mirzabaev, A.**, Olsson, L., Kerr, R.B., Pradhan, P., Ferre, M.G.R., Lotze-Campen, H. (2023). Climate Change and Food Systems. In: von Braun, J., Afsana, K., Fresco, L.O., Hassan, M.H.A. (eds) Science and Innovations for Food Systems Transformation. Springer, Cham. [https://doi.org/10.1007/978-3-031-15703-5\\_27](https://doi.org/10.1007/978-3-031-15703-5_27)
- (2) Kubik, Z., **Mirzabaev, A.**, May, J. (2023). Climate Change, Food and Nutrition Security, and Human Capital. In: Zimmermann, K.F. (eds) Handbook of Labor, Human Resources and Population Economics. Springer, Cham. [https://doi.org/10.1007/978-3-319-57365-6\\_333-1](https://doi.org/10.1007/978-3-319-57365-6_333-1)



- (3) **Mirzabaev, A.**, von Braun, J. (2022). Strengthening Water-Energy-Food Nexus Through Multi-stakeholder Engagement for Sustainable Food Systems. In: Cavalli, L., Vergalli, S. (eds) Connecting the Sustainable Development Goals: The WEF Nexus. Sustainable Development Goals Series. Springer, Cham. [https://doi.org/10.1007/978-3-031-01336-2\\_5](https://doi.org/10.1007/978-3-031-01336-2_5)
- (4) Mbaye A, von Braun J, **Mirzabaev A**, and F Gueye (eds.) (2021) Climate change and food security in West Africa. WASCAL, UCAD, ZEF, [Download](#)
- (5) **Mirzabaev A**, Annagyljova J, Amirova I (2019). Environmental Degradation. In: Xenarios S et al. (eds). The Aral Sea basin: water for sustainable development in Central Asia. Earthscan, Routledge. London and New York.
- (6) **Mirzabaev A** (2018). Improving the Resilience of Central Asian Agriculture to Weather Variability and Climate Change In: Lipper et al. (eds.). Climate Smart Agriculture - Building Resilience to Climate Change. New York: Springer.
- (7) Gerber N and **Mirzabaev A** (2017). Benefits of action and costs of inaction: Drought mitigation and preparedness. In: Wilhite D and Pulwart R (eds) Drought and Water Crises, Integrating Science, Management, and Policy, Second Edition, CRC Press, Taylor and Francis Group.
- (8) Krasilnikov, P., Sorokin, A., **Mirzabaev, A.**, Makarov, O., Strokov, A., & Kiselev, S. (2017). Economics of Land Degradation to Estimate Capital Value of Soil in Eurasia. In Global Soil Security (pp. 237-246). Springer International Publishing. ISBN: 978-3-319-43393-6 (Print) 978-3-319-43394-3 (Online)
- (9) von Braun J. and **Mirzabaev A**. (2016). Nexus scientific research–Theory and approach serving sustainable development. In: Dodds F .and Bartram J.(eds.) The Water, Food, Energy and Climate Nexus: Challenges and an Agenda for Action. Oxford, UK: Earthscan.
- (10) **Mirzabaev A**. (2016). Land degradation and sustainable land management innovations in Central Asia. In: Gatzweiler F and von Braun J (2016). Technological and institutional innovations for marginalized smallholders in agricultural development. Springer International Publishing. ISBN: 978-3-319-25716-7 (Print) 978-3-319-25718-1 (Online).
- (11) **Mirzabaev, A.**, Goedecke, J., Dubovyk, O., Djanibekov, U., Le, Q. B., & Aw-Hassan, A. (2016). Economics of Land Degradation in Central Asia. In: Nkonya E. Mirzabaev A and J von Braun (eds.) Economics of Land Degradation and Improvement–A Global Assessment for Sustainable Development (pp. 261-290). Springer International Publishing.
- (12) **Mirzabaev, A.**, Nkonya, E., Goedecke, J., Johnson, T., & Anderson, W. (2016). Global Drivers of Land Degradation and Improvement. In: Nkonya E. Mirzabaev A and J von Braun (eds.) Economics of Land Degradation and Improvement–A Global Assessment for Sustainable Development (pp. 167-195). Springer International Publishing.

- (13) Le, Q. B., Nkonya, E., & **Mirzabaev, A.** (2016). Biomass productivity-based mapping of global land degradation hotspots. In: Nkonya E. Mirzabaev A and J von Braun (eds.) Economics of Land Degradation and Improvement–A Global Assessment for Sustainable Development (pp. 55-84). Springer International Publishing.
- (14) Sorokin, A., Bryzzhev, A., Stokov, A., **Mirzabaev, A.**, Johnson, T., & Kiselev, S. V. (2016). The Economics of Land Degradation in Russia. In: Nkonya E. Mirzabaev A and J von Braun (eds.) Economics of Land Degradation and Improvement–A Global Assessment for Sustainable Development (pp. 541-576). Springer International Publishing.
- (15) Mulinge, W., Gicheru, P., Murithi, F., Maingi, P., Kihui, E., Kirui, O. K., & **Mirzabaev, A.** (2016). Economics of Land Degradation and Improvement in Kenya. In: Nkonya E. Mirzabaev A and J von Braun (eds.) Economics of Land Degradation and Improvement–A Global Assessment for Sustainable Development (pp. 471-498). Springer International Publishing.
- (16) Gebreselassie, S., Kirui, O. K., & **Mirzabaev, A.** (2016). Economics of Land Degradation and Improvement in Ethiopia. In: Nkonya E. Mirzabaev A and J von Braun (eds.) Economics of Land Degradation and Improvement–A Global Assessment for Sustainable Development (pp. 401-430). Springer International Publishing.
- (17) **Mirzabaev A.** (2013). [Climate Volatility and Change in Central Asia: Economic Impacts and Adaptation](#). Bonn, Univ., Diss. URN: urn:nbn:de:hbz:5n-32382

### ***Discussion and working papers***

- (1) Amondo, E.I., **Mirzabaev, A.** and E. Nshakira-Rukundo. 2021. Effect of extreme weather events on child health in rural Uganda. (ZEF Discussion Paper 309)
- (2) **Mirzabaev A**, Tekalign Sakketa, Mouhamadou Bamba Sylla, Kangbéni Dimobe, Safietou Sanfo, Assefa Admassie, Degnet Abebaw, Ousmane Nafolo Coulibaly, Rabani Adamou, Boubacar Ibrahim, Abdou Latif Bonkaney, Abdoul Aziz Seyni, Mamoudou Idrissa, Olawale E Olayide, Amy Faye, Mohamadou Dièye, Pape Bilal Diakhaté, Assane Bèye, Moussa Sall, Mbaye Diop, Abdelrahman Khidir Osman, Adil M Ali, Issa Garba, Heike Baumüller, Souleymane Ouedraogo, Joachim von Braun (2021). Land, Climate, Energy, Agriculture and Development in the Sahel: Synthesis paper of case studies under the Sudano-Sahelian Initiative for Regional Development, Jobs, and Food security. (ZEF Working Paper 204).
- (3) **Mirzabaev, A.**, Wambui Njiraini, G., Gebremariam, G., Jourdain, D., Magaia, E., Julio, F., Mosse, G., Mutondo, J. and E. Mungata. (2019). Transboundary Water Resources for People and Nature: Challenges and Opportunities in the Olifants River Basin. (ZEF Working Paper 177)
- (4) Muli C, Gerber N, Sakketa T and **Mirzabaev A.** (2018). Ecosystem tipping points due to variable water availability and cascading effects on food security in Sub-Saharan Africa. ZEF Working Paper Series 174.
- (5) Villamor, G. B., Guta, D., Djanibekov, U., & **Mirzabaev, A.** (2018). Gender specific perspectives among smallholder farm households on water-energy-food security nexus

issues in Ethiopia (ZEF Discussion paper series No. 258). Bonn. Available at <http://ageconsearch.umn.edu/record/27312>

- (6) Gerber, N., and **Mirzabaev, A.** (2017). Benefits of action and costs of inaction: Drought mitigation and preparedness—a literature review. World Meteorological Organization and Global Water Partnership. Integrated Drought Management Programme Working Paper No. 1, Geneva, Switzerland.
- (7) Chen, Q. and **A. Mirzabaev.** (2016). Evaluating the Impacts of Traditional Biomass Energy Use on Agricultural Production in Sichuan, China. (ZEF Discussion Papers 229), Bonn, Germany.
- (8) Djanibekov, U., Finger, R., Guta, D.D., Gaur V. and **A. Mirzabaev.** (2016). A generic model for analyzing nexus issues of households' bioenergy use. (ZEF Discussion Papers 209), Bonn, Germany.
- (9) von Braun, J. and **Mirzabaev, A.** (2015). Small farms: Changing structures and roles in economic development (No. 204). ZEF Discussion Papers on Development Policy. Bonn, Germany.
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