

Eduard Bukin

Land and poverty economist

Economist, Global Poverty Department, The World Bank · PhD candidate, Justus Liebig University Giessen
[ebukin.github.io](https://github.com/EBukin) · github.com/EBukin · [linkedin.com/in/ebukin](https://www.linkedin.com/in/ebukin) · [Google Scholar](https://scholar.google.com/citations?user=8Q8Q8Q8Q8Q) · [ORCID 0000-0002-1003-1260](https://orcid.org/0000-0002-1003-1260)

ABOUT

Land and poverty economist with a decade of research and hands-on operational experience in Ukrainian land markets, institutions, and valuation. My work combines rigorous impact evaluation with the practical business of making land data usable: published peer-reviewed research on farmland pricing, rental-market efficiency, and land valuation and taxation in Ukraine, and direct technical assistance to the State Cadaster — including analysis code adopted as the basis for regression-based agricultural land valuation. My current pipeline extends this into urban mass valuation (real estate listing data combined with Cadaster and Registry of Rights records) and a large-scale impact evaluation of land reform in Kazakhstan. I work fluently across survey, administrative, and geospatial data (R, Python, Google Earth Engine, PostGIS), and have consulted on the Land Parcel Identification System and mass valuation of agricultural land. Alongside my research I have several years' experience teaching applied econometrics and impact-evaluation methods and building analytical capacity with clients and national statistical offices.

WORK EXPERIENCE

Economist, Global Poverty Department

Feb 2025 — present

The World Bank · Washington DC

Innovation and systems engineering for global poverty analysis, as well as land-economics research and operational support to the Ukrainian State Cadastre. The work programme in the Global Poverty Department (WKPEP):

- *Land economics and Ukraine*. Co-authored research on the Ukrainian land market; technical assistance to the State Cadaster; consulting on the Land Parcel Identification System (LPIS) and mass valuation of agricultural land; piloted mass appraisal of urban land. Implemented the agricultural land valuation adopted by the Ukrainian State Cadastre.
- *AI-assisted coding*. Led the Bank-wide initiative on AI-assisted coding in R and Stata. Launched a seminar series and internal training; the [ai4coding](#) course reached 600+ staff through the Open Learning Campus; introduced Positron and Quarto as Bank-standard tools for reproducible research.
- *GeoPov*. Co-initiated the department programme joining geospatial and micro data to read spatial income and welfare disparities.
- *Micro Modelling Lab*. Engineered data pipelines for macro–micro fiscal microsimulations as part of the MML standardization initiative.
- *EU poverty mapping*. Contributed to EU-wide poverty mapping and missions to Poland; trained the Polish national statistical office.

References: Klaus W. Deininger; Carolina Diaz-Bonilla; Nobuo Yoshida

Lecturer (wissenschaftlicher Mitarbeiter)

Jan 2020 — Dec 2024

Justus Liebig University Giessen · Germany

Research at the Institute for Agricultural Policy and Market Research on land markets and institutions, alongside two MSc courses and a doctoral thesis. Farm restructuring and returns to scale, rental-market efficiency in Ukraine, land-policy evaluation in Kazakhstan, and resource market failures in transition agriculture.

- Introduced *Applied Econometrics*, teaching the path from cause to effect.
- Researcher on the BMBF-funded ROCHADE project as CGE modeller and global trade data analyst.

References: Prof. Dr. Martin Petrick

Economist, short-term consultant

Mar 2018 — Jan 2025

The World Bank · Poverty & Equity Global Practice

Microeconomic analysis of fiscal incidence, geospatial analysis and country-level capacity building, delivered largely as reusable software. R packages and Shiny applications let governments interrogate their own policy simulations.

- *devCEQ* — fiscal microsimulation apps for Senegal, Côte d'Ivoire, Benin, Indonesia, Romania, Türkiye, El Salvador and Armenia, with capacity building in Indonesia and Georgia.
- *devPTIpack* — Project Targeting Index tools across Africa and Asia.
- Founded the [EU Poverty Mapping](#) GitHub organisation and its initial guidelines; land-economics research at DEC on transparent land governance in Ukraine.

- Shiny tools for fragility and conflict risk monitoring (Iraq), spatial poverty explorers (Latin America, Indonesia), rural diagnostics, and the lassopmm package.

Researcher

Oct 2017 — Dec 2019

IAMO · Halle (Saale), Germany

Land and labour relationships in agriculture, focusing on principal-agent problems and contractual relations in Ukraine. Led the second wave of the IAMO Farm Survey in Kazakhstan and Central Asia — questionnaire design, pre-testing, interviewer training, and QA/QC over 600 collected responses.

Trade Economist · Statistician

Sep 2014 — Jan 2018

FAO of the United Nations · Rome

Policy briefs for the WTO 11th Ministerial, bilateral trade analysis, and the meat chapter of the *OECD-FAO Agricultural Outlook 2017–2026*. Maintained the AGLINK-COSIMO country modules, and contributed the Import Surges and Price Depressions review and an R Shiny application for trade data exploration. Earlier, as statistician, implemented IPCC-compliant GHG estimation methodology and QA/QC protocols, and built the first emissions-intensities database in FAOSTAT.

Earlier positions

2010 — 2015

Pretoria · Kyiv · Twann

Internships and junior research posts in inclusive business models, transfer pricing and agricultural information systems. PGSARD, Pretoria — intern, inclusive business models impact assessment (2014–2015). National University of State Tax Service of Ukraine — junior researcher, transfer pricing in agricultural exports (2012–2013). NULES of Ukraine — junior researcher, information systems (2010–2011). Kapfgut, Twann, Switzerland — agricultural intern (2011).

EDUCATION

PhD, Agricultural Economics

2024 — Dec 2026

Justus Liebig University Giessen

Land privatization and pasture quality in southern Kazakhstan, evaluating the impact of a natural experiment. The thesis pairs cadastral records of land allocation with remotely sensed measures of climate, vegetation and land cover. Supervisor: Prof. Dr. Martin Petrick.

MSc, Rural Development — magna cum laude

2013 — 2015

Ghent · Humboldt Berlin · Pisa · Pretoria — Erasmus Mundus

130 ECTS across four universities under the Erasmus Mundus IMRD programme. Thesis: “Improving Competitiveness of the Ukrainian Sugar Industry: Economic Instability and Policy Implications.” Supervisor: Prof. Dr. Jeroen Buysse.

MSc & BSc, Economic Cybernetics — summa cum laude

2008 — 2013

National University of Life and Environmental Sciences of Ukraine

Agricultural economics and policy, applied mathematics and statistics, econometrics, and quantitative risk analysis. MSc 70 ECTS, BSc 240 ECTS. Supervisor: Prof. Dr. Andrii Skrypyk.

TEACHING

Introduction to Statistics and Econometrics

2020 — 2024

MSc · English · JLU Giessen

Foundations for social-science research: probability, estimation, inference, and the linear model. Taught with applied agricultural and development data.

Advanced Econometrics in the Social Sciences

2020 — 2024

MSc · English · JLU Giessen

The mostly-harmless toolbox for getting from a cause to an effect. Panel methods, instrumental variables, difference-in-differences, and regression discontinuity.

AI-assisted coding for economists

2025 — present

World Bank Open Learning Campus

A World Bank course on using AI responsibly in R and Stata workflows, taken by more than 600 staff. An accompanying seminar series runs alongside it. worldbank.github.io/ai4coding

PUBLICATIONS

PEER-REVIEWED ARTICLES

- Robinson, S., Akhmadiyeva, Z., *Bukin, E.*, Bútorová-McGurk, M., Oshakbayev, D., Petrick, M. (2026). Pastoral land tenure reform in post-independence Kazakhstan: issues and prospects. *Journal of Land Use Science* 21(1), 323–348.
- Deininger, K., Ali, D. A., *Bukin, E.*, Martyn, A. (2026). Reforming land valuation and taxation in Ukraine: a path towards greater sustainability, fairness, and transparency. *Land Use Policy* 165, 107976.
- *Bukin, E.*, Robinson, S., Petrick, M. (2025). The effects of land privatization on pasture productivity in south-eastern Kazakhstan. *Land Use Policy* 158, 107741.
- Kvartiuk, V., *Bukin, E.*, Herzfeld, T. (2024). “For whoever has will be given more”? Land rental decisions and technical efficiency in Ukraine. *Land Use Policy* 146, 107336.
- Leimbach, M., Hübler, M., Mahlkow, H., Montrone, L., *Bukin, E.*, Felbermayr, G., et al. (2024). Macroeconomic structural change likely increases inequality in India more than climate policy. *Environmental Research Letters* 19(4), 044070.
- Hübler, M., *Bukin, E.*, Xi, Y. (2022). The effects of international trade on structural convergence and CO₂ emissions. *Environmental and Resource Economics* 83(3), 579–604.
- Kvartiuk, V., Herzfeld, T., *Bukin, E.* (2022). Decentralized public farmland conveyance: rental rights auctioning in Ukraine. *Land Use Policy* 114, 105983.
- Hajdu, A., Gagalyuk, T., *Bukin, E.*, Petrick, M. (2021). Determinants of corporate social responsibility among farms in Russia and Kazakhstan: a multilevel approach using survey data. *IFAMAR* 24(4), 697–716.

WORKING PAPERS AND WORK IN PROGRESS

- *Bukin, E.* (2026). Three decades of land reforms in Kazakhstan: economic impact evaluation.
- *Bukin, E.*, Deininger, K. (2026). Urban land and property valuation in Ukraine: overcoming data constraints with real estate listing data.
- Deininger, K. W., Ali, D. A., *Bukin, E.*, Martyn, A. (2024). Reforming land valuation and taxation in Ukraine: a path towards greater sustainability, fairness, and transparency. Policy Research Working Paper Series.
- Deininger, K., Ali, D. A., *Bukin, E.*, Martyn, A. (2024). Reforming land valuation and taxation in Ukraine — reproducibility package. World Bank.
- Leimbach, M., Hübler, M., Mahlkow, H., Montrone, L., *Bukin, E.*, Felbermayr, G., Kalkuhl, M., et al. (2022). Structural change likely increases inequality in India more than climate policy.
- Hübler, M., *Bukin, E.*, Xi, Y. (2020). The effects of international trade on structural change and CO₂ emissions. Kiel Working Paper 2174.

REPORTS AND POLICY WORK

- Nguyen, N. T. V., Stemmler, H., *Bukin, E.*, Brunckhorst, B. J. (2026). People, jobs, and places: a spatial analysis of welfare disparities in low- and middle-income countries — reproducibility package. World Bank Reproducible Research Repository, FR_WLD_2026_682.
- Kvartiuk, V., Herzfeld, T., Martyn, A., *Bukin, E.* (2020). Rental price dynamics of state-owned agricultural land in Ukraine. APD Report: ADP/ARP/01/2020.
- FAO Trade and Markets Division (2017). OECD-FAO Agricultural Outlook 2017–2026 — meat chapter.

THESES

- *Bukin, E.* (2026). Land privatization and pasture quality in southern Kazakhstan. PhD thesis, JLU Giessen.
- *Bukin, E.* (2015). Improving competitiveness of the Ukrainian sugar industry. MSc thesis, Ghent University.

SKILLS

Causal inference and impact evaluation (8+ yrs) · Micro-econometrics (10+ yrs) · Microdata analysis (8+ yrs) · Agricultural and development economics (8+ yrs) · Policy analysis with partial and general equilibrium models (5+ yrs) · Data science, pipelines, data QA/QC (8+ yrs) · R and R Shiny, package development (12+ yrs) · Git, GitHub and version control (10+ yrs) · Geospatial data analysis: R/Python/GEE (8+ yrs) · Stata (10+ yrs) · GAMS (5+ yrs)

LANGUAGES

Ukrainian (mother tongue) · German B2 · English C2 · Russian C2 · Italian A2 · French A2

SCHOLARSHIPS

IAMO Leibniz-Association PhD Scholarship (2017–2020) · Erasmus+ post-graduation internship grant (2015–2016) · Erasmus Mundus Scholarship, IMRD (2013–2015) · Zavtra.UA Scholarship, Victor Pinchuk Foundation (2011–2013)