

Bence Kiss-Dobronyi

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bence.kiss-dobronyi@uni-corvinus.hu

Arlington, VA, USA • Budapest, Hungary

bencekd.hu • linkedin.com/in/bencekd • github.com/bencekd • medium.com/@bencekd

Professional Experience

World Bank (IBRD)

WASHINGTON, D.C., USA

ET Consultant (Economist)

Jan '24 – present

Prosperity Group, Economic Policy, Jobs & Growth Unit.

Contributions to analytical work in Zimbabwe, [Zambia](#), Botswana, Namibia, [Moldova](#), [Mongolia](#), Tajikistan, [North Macedonia](#) (CBAM). Led the model development of the dynamic macroeconomic-energy model MINDSET, a MRIO-based structural-model of the global economy with a focus on climate policy and climate damages, labour and distributional outcomes. Applied the MFMod macro-structural model for economic forecasting and policy assessment.

Cambridge Econometrics

BRUSSELS, BELGIUM & BUDAPEST, HUNGARY & CAMBRIDGE, UK

Economist, Senior Economist, Managing Economist

Sep '18 – Dec '23

Assessment of the socio-economic implications of climate mitigation, carbon pricing and carbon-border adjustment policies. Project management (teams of up to 2-5 people), technical assistance & capacity building (e.g., Czech Republic, UK, South Africa) and thought leadership (blogs, presentations, articles). Macroeconomic modelling, model development (E3ME, input-output, SAM) and empirical methods. Projects in the thematic areas of environment, climate and energy policy. Clients: UN, ILO, European Commission, European Parliament, various governments.

Hiflylabs

BUDAPEST, HUNGARY

Consultant, Project Manager

Jun '17 – Aug '18

Data analysis, database & system architecture and consulting projects. Project (2-5 ppl teams) and account lead. Clients: governmental institutions, financial institutions, energy sector. Managing project teams in data- science, engineering & visualisation projects.

Accenture

BUDAPEST, HUNGARY & BRATISLAVA, SLOVAK REPUBLIC

Analyst

Jul '16 – May '17

TARKI Social Research Institute

BUDAPEST, HUNGARY

Data Visualisation Specialist (contract)

Aug '15 – Aug '16

Education

Corvinus University of Budapest

BUDAPEST, HUNGARY

PhD in Business Economics

2021 – 2026

Thesis: *Essays on Economic Implications of COVID-19*, supervisors Erzsebet Czako & David Losonci

Massachusetts Institute of Technology / edX / JPAL

ONLINE

MicroMasters in Data, Economics, and Development Policy

2020 – 2021

Online non-degree program, consisting of five MIT courses
program leaders Esther Duflo & Abhijit Banerjee

Corvinus University of Budapest

BUDAPEST, HUNGARY

MSc in Leadership & Management

2014 – 2016

Performance management and controlling major

Thesis: *The effect of EU funded development grants on SMEs*, supervisor David Tarody

Rajk College for Advanced Studies

BUDAPEST, HUNGARY

Social Sciences & Economics (Non-degree, advanced courses in various topics)

2011-2016

Selected courses:

Networks and Economic Behaviour - one-day course (Matthew O. Jackson)

The Second Machine Age - short course (Erik Brynjolfsson)

Disruptive Innovation - short course (Clayton Christensen)

Valuation in one-day - short course (Aswath Damodaran)

University of Tübingen

TÜBINGEN, GERMANY

Economics (Master's level, exchange semester)

2015

Corvinus University of Budapest

BUDAPEST, HUNGARY

BA in Commerce & Marketing

2010 – 2013

Recent contributions - not peer-reviewed reports

Zambia Economic Update: Leveraging Energy Transition Minerals for Economic Transformation (2026)
World Bank, Washington, D.C. [[web](#)]

MINDSET: an easy-to-use sectoral model covering 164 countries (2025)
World Bank, Washington, D.C. [[web](#)]

Moldova Country Climate and Development Report (2024)
World Bank, Washington, D.C. [[web](#)]

The impact of the implementation of EU's Carbon Border Adjustment Mechanism on North Macedonia (2024)
World Bank, Washington, D.C. [[web](#)]

Mongolia Country Climate and Development Report (2024)
World Bank, Ulaanbaatar [[web](#)]

Modelling and comparing the employment impacts of COVID-19 crisis and recovery policies in Indonesia (2022)
International Labour Organization (ILO), Geneva [[web](#)]

Modelling the Decarbonisation of Energy Intensive Industries in the EU: the Potential Effects of a Carbon Border Mechanism (2022)
European Trade Union Institute (ETUI), Brussels [[web](#)]

On the Borderline: The EU CBAM and its place in the world of trade (2021)
Cambridge Institute for Sustainability Leadership (CISL), Cambridge, UK [[web](#)]

Modelling a Global Inclusive Green Economy COVID-19 Recovery Programme (2021)
UN PAGE - UN Environment Programme, Geneva - Cambridge, UK [[web](#)]

Demand-side solutions to carbon-neutrality in the EU: introducing the concept of sufficiency (2021)
ZOE Institute for Future-Fit Economies, Cologne [[web](#)]

Understanding and measuring cross-border digital trade (2020)
UK Department for International Trade and the Department for Digital, Culture, Media and Sport [[web](#)]

Publications - peer-reviewed

Aczel, B., [...] Kiss-Dobronyi, B. [...], Nosek, B.A. (2026): Investigating the analytical robustness of the social and behavioural sciences., *Nature*, DOI: [10.1038/s41586-025-09844-9](#).

Chikan, A., Kiss-Dobronyi, B., Homoki-Szabo, E., Molnar, B. (2025): Government influence on national competitiveness (Evidence from the COVID era), *Competitiveness Review*, DOI: [10.1108/CR-01-2024-0008](#).

Suk, S., Chewpreecha, U., Liu, Y., Chen, Z., Kiss-Dobronyi, B., Morotomi, T. (2024): Carbon Market Linkage of China, Japan and Korea and Its Decarbonization Impacts on Economies and Environment: E3ME Application Case Study, *Energy Transitions and Climate Change Issues in Asia*, In: Lee, S., Zhang, S., Hong, J.H., Nabangchang-Srisawalak, O., Akao, K.I., Resosudarmo, B.P. (eds), Springer, Singapore. pp 59-88, DOI: [10.1007/978-981-97-1773-6_3](#).

Hartvig, A., Kiss-Dobronyi, B., Kotek, P., Takacsne Toth, B., Gutzianas, I., Zareczky, A.Z. (2024): The economic and energy security implications of the Russian energy weapon, *Energy*, 294 (May 2024), DOI: [10.1016/j.energy.2024.130972](#).

Kiss-Dobronyi, B., Czako, E., Losonci, D. (2024): Management practices and changes in turnover of domestic firms during the Covid-19 economic shock [in Hungarian], *Hungarian Economic Review*, LXXI (March 2024), DOI: [10.18414/KSZ.2024.3.229](#).

Kiss-Dobronyi, B., Chitiga-Mabugu, M., Lewney, R., Mbona, N. (2023): Interactions between recovery and energy policy in South Africa, *Energy Strategy Reviews*, 50 (November 2023), DOI: [10.1016/j.esr.2023.101187](https://doi.org/10.1016/j.esr.2023.101187).

Dafnomilis, I., Chen, H.-H., den Elzen, M., Fragkos, P., Chewpreecha, U., van Soest, H., Fragkiadakis, K., Karkatsoulis, P., Paroussos, L., de Boer, H.-S., Daioglou, V., Edelenbosch, O., Kiss-Dobronyi, B., van Vuuren, D.P. (2022): Targeted Green Recovery Measures in a Post-COVID-19 World Enable the Energy Transition, *Frontiers in Climate*, 4, DOI: [10.3389/fclim.2022.840933](https://doi.org/10.3389/fclim.2022.840933).

Chikan, A., Czako, E., Kiss-Dobronyi, B., Losonci, D. (2022): Firm competitiveness: A general model and a manufacturing application, *International Journal of Production Economics*, 243 (January 2022), DOI: [10.1016/j.ijpe.2021.108316](https://doi.org/10.1016/j.ijpe.2021.108316).

Pollitt, H., Lewney, R., Kiss-Dobronyi, B., Lin, X. (2021): Modelling the economic effects of COVID-19 and possible green recovery plans: a post-Keynesian approach, *Climate Policy*, Forthcoming Special Issue: COVID-19 recovery, DOI: [10.1080/14693062.2021.1965525](https://doi.org/10.1080/14693062.2021.1965525).

Kiss-Dobronyi, B., Fazekas, D., Pollitt, H. (2021): Macroeconomic assessment of possible Green Recovery scenarios in Visegrad countries, *Society and Economy*, 43(3), DOI: [10.1556/204.2021.00014](https://doi.org/10.1556/204.2021.00014).

Chikan, A., Czako, E., Losonci, D. & Kiss-Dobronyi, B. (eds.) (2019): On the edge of the 4th industrial revolution. Briefing on the results of the 2019 questionnaire (in Hungarian). Versenyképesség Kutató Központ–VTO Alapítvány: Budapest [report].

Buksa, M., Hoffmann, J., Kiss-Dobronyi, B. & Thaler, B. (eds.) (2015): The Disrupting Power of Novelty - Summaries from the works of Clayton M. Christensen (in Hungarian). Rajk College: Budapest [book]

Conferences and invited talks

Pollitt, H., Kiss-Dobronyi, B. MINDSET 2.0 model invited lecture, *Principles of Macroeconomics Seminar*, McGill University, 2026 Feb

Kiss-Dobronyi, B., Hartvig, A. Interaction of local mitigation policy and international climate action, *IAMC Annual Meeting*, Cenergia, Universidade Federal do Rio de Janeiro, 2025 Nov

Lehr, U., Kiss-Dobronyi, B., Deininger, F., Dorband, I., Renewable empowerment – gender-inclusive climate policies for more jobs for women and girls, *IAEE 46th International Conference*, Association des Economistes de l’Energie, 2025 June

Kiss-Dobronyi, B. Low-Carbon Structural Economic and Employment Transformations - the MINDSET model at the World Bank - Technical deep-dive, *IAEE 45th International Conference*, Boğaziçi Üniversitesi, 2024 June

Kiss-Dobronyi, B. The role of MNEs in decarbonizing the cement industry – home and abroad, *7th Global Strategy and Emerging Markets Conference & 8th Copenhagen OFDI Conference*, Copenhagen Business School, 2023 Oct

Suk, S., Kiss-Dobronyi, B., Chen, Z., Toru, M. Impact of carbon market linkage between China, Japan and Korea on decarbonization: E3ME applied study, *12th Congress of Asian Association of Environmental and Resource Economics*, Waseda University, 2023 Aug

Kiss-Dobronyi, B., Hartvig, A., Kotek, P., Takacsne Toth, B., Gutzianas, I., Zareczky, A. A multi-model assessment of the economic and energy impacts of the war in Ukraine, *Commodity and Energy Markets Association Annual Conference*, Budapest University of Technology and Economics, 2023 Jun

Kiss-Dobronyi, B., Lewney, R., Chitiga-Mabugu, M., Mbona, N. Interactions between recovery and energy policy in South Africa, *Third Young Scholars Conference on Structural Change and Industrial Policy*, YSI, 2023 Jun

Kiss-Dobronyi, B. (lead organizer) First E3ME-FTT Summer School, Cambridge Econometrics, 2023 Jun

Kiss-Dobronyi, B. Macroeconomic modelling of the distributional and revenue impacts of the Fit-for-55 policy package, *SEEPIA Summer School on Macroeconomic modelling of environmental policy*, Charles University Prague, 2023 May

Kiss-Dobronyi, B. Post-Keynesian macroeconomic modelling of the potential effects of the carbon border adjustment mechanism, *2023 Winter School on Climate Policies, Innovation, and International Competitiveness*, EEARE, 2023 Feb

Kiss-Dobronyi, B. Advancing a green and fair economic transformation in a crisis-driven World: The role of macro-economic modelling, *UN PAGE - UN DCO seminars*, Online, 2022 Dec

Kiss-Dobronyi, B., Hartvig, A., Heilmann, I. Economics of sufficient consumption pathways for 1.5C and 2C warming employing post-Keynesian demand-led modelling, *IAMC Annual Meeting*, University of Maryland, 2022 Dec

Hartvig, A., Kiss-Dobronyi, B., Vercoulen P., Zareczky, A. Regional rivalry: SSP3 modelling of the war in Ukraine, *IAMC Annual Meeting*, University of Maryland, 2022 Dec

Kiss-Dobronyi, B. Stocktaking of economic, social, and environmental impacts of sustainable recovery, including impacts on NDC implementation, *Socialization of Presidency Studies of Climate Sustainability Working Group*, G20 Presidency Indonesia, 2022 Sept

Chikan, A. & Kiss-Dobronyi, B. An Inventory Paradigm Revisited in the COVID era, *International Symposium on Inventories*, International Society for Inventory Research, 2022 Aug

Polugodina, M., Fazekas, D. & Kiss-Dobronyi, B. The case of Germany with an outlook on the possible effects of a Carbon Border Adjustment Mechanism, *Decarbonizing energy intensive industries conference*, European Trade Union Institute, 2022 June

Kiss-Dobronyi, B. Economic impacts of FF55 for the Czech Republic: E3ME model, *Spring School on impact assessment*, Charles University Environment Centre, 2022 June

Chikan, A., Czako, E. & Kiss-Dobronyi, B. Connection between supply chain resilience characteristics and firms' performance in the pandemic, *IPSERA Annual Conference*, IPSERA, 2022 April

Kiss-Dobronyi, B. & Szekeres, M. Working from home: occupations and performance, results from Hungary, *Pandemic Shock and its Consequences for Business and the Economy*, WSB University in Poznan, 2021 Dec

Markkanen, S., Viñuales, J., Pollitt, H., Lee-Makiyama, H., Kiss-Dobronyi, B., Vaishnav, A. et al. On the Borderline: The EU CBAM and its place in the world of trade, *Research webinar*, University of Cambridge Institute for Sustainability Leadership, 2021 Oct

Pollitt H., Kiss-Dobronyi, B.: Using the tools we have to estimate the economic impacts of COVID-19, *Colloquium on Computational Social Science/Computational Data Sciences*, George Mason University, 2021 February

Kiss-Dobronyi, B., Pollitt, H., Lewney, R., Kramer, B., Massie, E. & Tuijp, P.: Assessment of impacts of COVID-19 and crisis recovery packages, *Thirteenth IAMC Annual Meeting 2020*

Teaching Experience

Thesis evaluation, Thesis supervision

2020-2024

1 x BA supervision, 2 x MSc evaluation, 2 x BA evaluation

Corvinus University of Budapest; Eötvös Loránd University (ELTE)

Course Instructor, International business economics (with Havran, Zs.) Master's level course, <i>Corvinus University of Budapest, Budapest</i>	2022
Course Instructor, Introduction to the economics of climate change Research course, <i>Rajk College, Budapest</i>	2022
Course Instructor, Introduction to business economics (with Haasz, V.) Bachelor level course, <i>Corvinus University of Budapest, Budapest</i>	2021
Course Instructor, Empirical competitiveness research (with Chikan, A.) Master's level research course, with a strong emphasis on methodology & applications (R, data imputation, dimension reduction and structural equation modelling methods), <i>Heller Farkas College, Budapest</i>	2020
Course Instructor, Data-driven competitiveness research (with Chikan, A.) One semester research course, with a strong emphasis on methodology & applications (Python, pandas, dimension reduction and regression methods), <i>Rajk College, Budapest</i>	2019

Awards & Grants

- 2025 Green Finances Research Award - *Hungarian National Bank*
- 2025 Europe & Central Asia VPU Team Awards, *Moldova CCDR: Climate Action for Energy Security - World Bank Group ECA*
- 2023 Best International Publication Award, Industrial and Corporate Economics - *Hungarian Academy of Sciences*
- 2021-2023 Recipient of 'Cooperative Doctoral Programme' Grant, Topic: "The impact of macroeconomic shocks on the economy" [C1753844] - *National Research, Development and Innovation Office of Hungary*
- 2016 [Heller Farkas Award for Academic Excellence](#) - *Rajk College for Advanced Studies*

Academic service

Reviewer for Mineral Economics, Competitiveness Review, Acta Oeconomica, Energy Sources, Discover Sustainability, Scientific Reports, External Economic Bulletin (Hungary)

Independent Coursework

EAERE - ETH Winter School on Climate Policies, Innovation, and International Competitiveness <i>EAERE & ETH Zurich</i>	2023
Spring School on the Evolution of Social Complexity <i>Complexity Science Hub Vienna</i>	2022
Susan Athey: Machine Learning Methods in Economics one-day course, <i>Rajk College for Advanced Studies</i>	2019

Skills

Technical expertise:

ADVANCED R (tidyverse, ggplot2, igraph), Python (pandas, numpy, scipy, matplotlib, seaborn, networkx), JavaScript, MS Office Suite

INTERMEDIATE STATA, EViews, HTML, Gephi, QGIS, L^AT_EX, Tableau, PowerBI, Adobe Suite, Git, Vue.js, D3.js, Fortran

BASIC Claude Code, NetLogo, SVN, PHP, SQL, VBA, MongoDB, Pajek, SAS, Ox

Languages: English (*full professional proficiency*), Hungarian (*native*), German (*beginner*).
