Bence Kiss-Dobronyi

bence.kiss-dobronyi@uni-corvinus.hu •
Arlington, VA • USA
linkedin.com/in/bencekd • github.com/bencekd • medium.com/@bencekd

---

Education

Corvinus University of Budapest   BUDAPEST, HUNGARY
PhD in Business Economics   *2021 – present*
Topic: *Macroeconomic shocks and competitiveness*, 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:
Values in Society and Economy I-II (Attila Chikan)
Econometrics I-II (Balazs Murakozy)
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*
Selected courses:
Research Internship in Economic History (Joerg Baten)
Multinational Enterprises (Onur A. Koska)

Corvinus University of Budapest   BUDAPEST, HUNGARY
BA in Commerce & Marketing   *2010 – 2013*
Thesis: *Democratizing Information - do we take the opportunity?*
Mobile application markets and consumer choice, supervisor Eva Markos-Kujbus

---

Professional Experience

World Bank (IBRD)   WASHINGTON, D.C., USA
ET Consultant (Economist)   *Jan '24 – present*
Macroeconomic modelling and model development (MRIO focus) with a focus on climate, energy
policy and labour outcomes.

Cambridge Econometrics   BRUSSELS, BELGIUM & BUDAPEST, HUNGARY & CAMBRIDGE, UK
Economist, Senior Economist, Managing Economist   *Sep '18 – Dec '23*
Macroeconomic modelling, model development (E3ME, input-output, SAM) and economic research.
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. 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*

Publications

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.

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.

Kiss-Dobronyi, B., Fazekas, B. (2022): Modelling the Decarbonisation of Energy Intensive Industries in the Eu: the Potential Effects of a Carbon Border Mechanism, *ETUI Research Papers*, Report 3.

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.

Markkanen, S., Viñuales, J., Pollitt, H., Lee-Makiyama, H., Kiss-Dobronyi, B., Vaishnav, A., Le Merle, K. and Cullen, L.G. (2021): On the Borderline: The EU CBAM and its place in the world of trade, *CISL working papers*, Cambridge UK.

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.

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.

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

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., Hartvig, A., Gutzianas, I., Arsenio, F. South African decarbonisation – integrating IAM and open-source SAM modelling, *Sixteenth IAMC Annual Meeting 2023*, Euro-Mediterranean Center on Climate Change, 2023 Nov

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

Simo, M., Kiss-Dobronyi, B., Hartvig, A. British Institute of Energy Economics Oxford 2023 Research Conference, *British Institute of Energy Economics Oxford 2023 Research Conference*, BIEE, 2023 Sep

Chen, Z., Suk, S., Kiss-Dobronyi, B. A study of decarbonization in China involving impact analysis of zero coal power plants on the economy and environment using E3ME, *12th Congress of Asian Association of Environmental and Resource Economics*, Waseda University, 2023 Aug

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

Chikan, A., Czako, E., Losonci, D. & Kiss-Dobronyi, B. Measuring firm competitiveness, *Research webinar*, Hungarian Economists Association, 2022 Jan

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

Kiss-Dobronyi, B. The role of sufficiency in the sustainable economy, *Future Trade conference*, 2021 Sept

Kiss-Dobronyi, B. E3ME-FTT, an integrated energy-climate model, with technological progress, *XXXIV. Hungarian Operations Research Conference*, Hungarian Operations Research Society, 2021 Aug

Van Hummelen, S., Kiss-Dobronyi, B., Lewney, R., Barbieri, L. The long-term socioeconomic impacts of green recovery, *Climate Exp0*, COP26 Universities Network, 2021 May

Kiss-Dobronyi, B.: Using the tools we have to estimate the economic impacts of COVID-19, *GSI-CE research colloquium*, University of Exeter, 2021 March

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*, Integrated Assessment Consortium, 2020 December

Chikan, A., Czako, E., Kiss-Dobronyi, B. & Losonci, D.: Firm Competitiveness: a General Model and a Manufacturing Application in the Age of Digitalization, *International Working Seminar on Production Economics*, Universität Innsbruck, 2020 February

Kiss-Dobronyi, B.: Differences in silver prices across temporal and spatial dimensions: Silver pricing and determinants of local prices in the 19th-20th century, *XXXIII. National Conference of Scientific Students' Association (OTDK) – 'Economic History' section*, Széchenyi István University, 2017 Apr

Horvath G., Kiss-Dobronyi, B. & Nagy R.: The Effect of Regulatory Change on the Market of Compulsory Motor Vehicle Insurance (in Hungarian), *XXXIII. National Conference of Scientific Students' Association (OTDK) – 'Micro- and macroeconomics' section*, Széchenyi István University, 2017 Apr

Gabos A. & Kiss-Dobronyi, B.: The beta version of the IPOLIS data visualisation tool, *Expert Workshop 'Visualisation and outreach to stakeholders'*, University of Luxembourg, 2016 March

Kiss-Dobronyi, B. & Somosi, D.A.: Are Chinese Telecommunication Companies Competitive in Developed Countries? The Case of ZTE Corporation (in Hungarian), *XXXII. National Conference of Scientific Students' Association (OTDK) – 'International Economics and Business' section*, **Awarded 2nd prize**, Budapest Business School, 2015 Apr

Kiss-Dobronyi, B. & Szanto, P.: Competitiveness, Opportunities and Estimated Social Costs of Mobile Payment (in Hungarian), *XXXII. National Conference of Scientific Students' Association (OTDK) – 'Business Informatics' section*, Budapest Business School, 2015 Apr

Kiss-Dobronyi, B. & Ritter, K.: The Effect of Foreign Partnership and Foreign Trade Activity on Economic Activity and Social Norms (in Hungarian), *XXXII. National Conference of Scientific Students' Association (OTDK) – 'Economic History' section*, Budapest Business School, 2015 Apr

Kiss-Dobronyi, B. & Torda, A.: Motivating Bicycle Commuting in Corporate Environment (in Hungarian), *XXXI. National Conference of Scientific Students' Association (OTDK) – 'Sustainability & Sustainable Growth' section*, **Awarded 3rd prize**, University of Pannonia, 2013 Apr

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.) *2022*
   Master's level course, *Corvinus University of Budapest, Budapest*

Course Instructor, Introduction to the economics of climate change *2022*
   Research course, *Rajk College, Budapest*

Course Instructor, Introduction to business economics (with Haasz, V.) *2021*
   Bachelor level course, *Corvinus University of Budapest, Budapest*

Course Instructor, Empirical competitiveness research (with Chikan, A.) *2020*
   Master's level research course, with a strong emphasis on methodology & applications (R, data imputation,
   dimension reduction and structural equation modelling methods), *Heller Farkas College, Budapest*

Course Instructor, Data-driven competitiveness research (with Chikan, A.) *2019*
   One semester research course, with a strong emphasis on methodology & applications (Python, pandas,
   dimension reduction and regression methods), *Rajk College, Budapest*

Achievements & Scholarships

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*

2019-2020 Work exhibited in Data Stories Exhibition 2020 and 2019 - *Central European University, Hungary*

2019-2020 Work exhibited in Data Stories Exhibition 2020 and 2019 - *Central European University, Hungary*

2019 Selected participant of Youth Leader's Forum - *Antall József Knowledge Centre, Hungary*

2018 I.st prize "From data to story" hackathon - *Center for Independent Journalism*

2016 Heller Farkas Award for Academic Excellence - *Rajk College for Advanced Studies*

2015 TOP 10, 21st CEEMAN International Case Writing Competition - *CEEMAN & Emerald*

2014 Innovative Leaders of Tomorrow Scholarship - *Huawei*

2014 'New Wave' Scholarship - *International Training Center for Bankers, Budapest*

Independent Coursework

EAERE - ETH Winter School on Climate Policies, Innovation, and International Competitiveness *2023*
   EAERE & ETH Zurich

Spring School on the Evolution of Social Complexity *2022*
   Complexity Science Hub Vienna

Susan Athey: Machine Learning Methods in Economics *2019*
   one-day course, *Rajk College for Advanced Studies*

Natasha Balac, Paul Rodriguez, Andrea Zonca: Hadoop Platform and Application Framework *2017*
   online course, *Coursera, University of California San Diego*

Matthew O. Jackson: Social and Economic Networks *2015*
   online course, *Coursera, Stanford University*

Matthew O. Jackson, K. Leyton-Brown, Y. Shoham: Game Theory *2015*
   online course, *Coursera, Stanford University, The University of British Columbia*

Anthony C. Robinson: Maps and Geospatial Revolution *2015*
   online course, *Coursera, The Pennsylvania State University*

Jeff Leek: R Programming *2015*
   online course, *Coursera, Johns Hopkins University*

Skills

Technical expertise:

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

INTERMEDIATE   STATA, HTML, Gephi, QGIS, Tableau, PowerBI, Adobe Suite, Git, Vue.js, D3.js, NetLogo, Fortran

BASIC   EViews, LaTeX, PHP, SQL, VBA, MongoDB, Pajek, SAS, Ox

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