BENCE SZABÓ, PhD

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RESEARCH INTERESTS

Demographic economics, public economics, labor economics

PROFESSIONAL EXPERIENCE

National Bank of Hungary — 06/2024–

Senior economic analyst, Department of Applied Research and Stress Test

- Credit risk stress testing methodologies

Corvinus University of Budapest

Assistant professor, Institute of Economics — 09/2023–

- Researcher, instructor and course developer for Econometrics I. of the Applied Economics BSc

MBH Bank, Budapest

Risk modeling analyst (part-time) — 03/2023–05/2024

- Developing IFRS PD models, adjustments for macroeconomic expectations, providing general methodological solutions for the modeling team, studying ESG conceptual frameworks

Bocconi University, Milan

Research assistant — 01/2021–03/2022

- Database building, statistical analysis, data visualization for Prof. G. I. P. Ottaviano and Gábor Békés

Teaching assistant — 09/2019–08/2021

- Econometrics 20203 course (MSc level) of Prof. Giovanni Bruno (cross-sectional and panel)

Freelance Consultant

Econometrics and machine learning solutions (part-time) — 10/2019–03/2022

- SME cross-sell and credit risk models, lead rate prediction for insurance, credit card customer value analysis and segmentation, macroeconomic time series forecasting, survey design

Budapest Bank, Budapest

Risk modeling analyst — 09/2017–08/2018

- Developing ICAAP risk models: PD and LGD for commercial portfolios, maintaining commercial ICAAP, IFRS models, and concentration risk simulations

Centre for Economic and Regional Studies, Hungarian Academy of Sciences, Budapest

Research assistant — 01/2014–08/2015 and 05/2016–07/2017

- Econometric and statistical analysis using large demographic, labor, and firm data (regression, network, and cluster analysis), senior researchers: Gábor Kertesi, Gábor Kézdi, Tamás Hajdu

Institute for Economic and Enterprise Research, Budapest

Intern and junior analyst — 10/2013–10/2014 and 03/2015–08/2015

- Economic and statistical analysis of employment and firm dynamics, database building, senior researcher: István János Tóth

EDUCATION

Bocconi University, Milan   2018–2023
Ph.D. in Economics and Finance, cum laude
Thesis: Three Essays in Public Economics
- Tax Incentives and Completed Fertility (JMP)
- Charitable Behavior and Public Intervention
- Housing and Fertility

Advisors: G. I. P. Ottaviano, Joseph-Simon Görlach, Francesco C. Billari

Central European University, Budapest   2015–2017
MA in Economics, GPA: 3.9/4.0, class rank: 1/20
Thesis: Fertility Effects of the Family Tax Break Extension in Hungary
Advisor: Gábor Kézdi

Eötvös Loránd University, Budapest   2011–2014
BA in Applied Economics, Graduated with Honors, GPA: 5.0/5.0
Thesis: Determinants of Post-Graduation Foreign Country Employment
Advisor: János Köllő

AWARDS, FELLOWSHIPS

Budapest Institute YEP Fellowship	2022
Full Scholarship of the Economics Ph.D. Program at Bocconi University	2018–2022
Master's Thesis First Prize of the Hungarian Economic Association	2017
Peter Hangartner Fellowship	2015–2016
Best Thesis Prize of BA in Applied Economics, Eötvös Lorand University	2014
Fellowship of the Republic of Hungary	2013–2015
National Secondary School Academic Competition, History 1st prize	2010

LANGUAGES

English (advanced, C1), German (intermediate, B2), Hungarian (native)

PROGRAMMING SKILLS

R (tidyverse), Python (pandas, numpy, scipy), PL/SQL, STATA, Git

PUBLICATIONS, WORKING PAPERS, WORKSHOPS, CONFERENCES, SEMINARS

- Poor Housing Quality and the Health of Newborns and Young Children (joint work with Tamás Hajdu and Gábor Kertesi)
  - Hajdu, T., Kertesi, G. & Szabó, B. Poor housing quality and the health of newborns and young children. *Sci Rep* **14**, 12890 (2024). https://doi.org/10.1038/s41598-024-63789-z
- Passing with the Stars: Learning from Coworkers in Collaborative Jobs (joint work with Gábor Békés)
  - Presented at the Centre for Economic and Regional Studies in Budapest, October 30, 2023
  - Presented at the Research in Economics using Sports Data Workshop in Vienna, September 28, 2023
- The Impact of Childcare on Maternal Employment (joint work with Judit Berei, Márton Csillag, Hanna Erős, Judit Krekó, Ágota Scharle)
  - Invited to 13th ifo Dresden Workshop on Labor Economics and Social Policy (16 – 17 May 2024)

- [Tax Incentives and Completed Fertility](#) (Job Market Paper)
  - Presented at the Workshop on Fertility, Health and Human Capital – Queen's University Belfast, June 8, 2023
  - Presented at the Annual Meeting of the Population Association of America (820 - Population Politics, Population Policies, and Fertility), April 15, 2023
  - [Presented](#) at the Centre for Economic and Regional Studies in Budapest, April 14, 2022 [video]

- [Charitable Behavior and Public Intervention: a Survey Experiment](#) (joint work with Francesca Leombroni)
- [Housing and Fertility](#)

OTHER ACTIVITIES

- Referee for the Review of International Economics
- Completed the training "Bocconi Excellence in Advanced Teaching" (2019)
- Attendee of the "Efficiency in Education – concepts, techniques and results" workshop of EdEN project at Politecnico di Milano School of Management (October 17-19, 2016)
- Attendee of the "Five Day Training Course on Structural Models for Policy Evaluation and Discrete Choice Approaches" of EdEN project at Maastricht University (June 6-10, 2016)

REFERENCES

- G. I. P. Ottaviano: Full professor at the Department of Economics at Bocconi University (gianmarco.ottaviano@unibocconi.it)
- Joseph-Simon Görlach: Assistant professor at the Department of Economics at Bocconi University (josephsimon.goerlach@unibocconi.it)
- Guido E. Tabellini: Full professor at the Department of Economics at Bocconi University (guido.tabellini@unibocconi.it)
- Francesco C. Billari: Rector, Professor of Demography in the Department of Social and Political Sciences at Bocconi University (francesco.billari@unibocconi.it)