

# Gergely Mónus

PhD student, Department of Sociology, Corvinus University Budapest

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Statistician, Hungarian Central Statistical Office

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## EDUCATION

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### Corvinus University Budapest

PhD, Sociology Doctoral School, expected 2025

- Proposal title: Understanding Internal Migration through a Network Perspective
- Research interest: migration, network science, cities, agglomerations, network aspects of social stratification in space

### Eötvös Loránd Science University

MSc in Survey Statistics and Data Analytics, 2017 – 2019

Thesis title: The Effect of Homophily on Respondent-driven Sampling

Angelusz Róbert College for Advanced Studies in Social Sciences, 2015-2019

BA in Sociology, 2014 – 2017

Thesis title: The Prevalence of Post-materialist Values in Hungary after the Millenia

### Budapest University of Technology and Economics

Architecture – Integrated MSc program; 2011-2014

## CURRENT POSITIONS

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### NETI LAB, Corvinus University Budapest

PhD Student / junior researcher, 2021 September – present

### Hungarian Central Statistical Office

Statistician at the Population Census and Demographic Statistics Department,  
Housing Statistics Section, July 2019 – present

## RESEARCH EXPERIENCE

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- ANET-NETI Lab: junior researcher
- Statistician at KSH on different Eurostat grants
- Research intern at Computational Social Science - Research Center for Educational and Network Studies (CSS-RECENS), 2018

- Research aid in the “Migration – Approaching Reality with the Help of Innovative Methods”, 2017 (Lead researcher: Dávid Simon, Eötvös Loránd Science University, Faculty of Social Sciences)

## TEACHING

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- Social Network Analysis in R (Sociology MA program, Corvinus University, 2023, in English)
- Foundations of Social Sciences (Applied Economics MSc program, C. U., 2023, in English)
- Social Science Research Methods 1. (Communication BA program, C. U., 2023, in English)
- Quantitative Research and Data Analysis 1. (Sociology BA program, C. U., 2022, in Hungarian)
- Quantitative Research: Statistical Foundations (Sociology BA program, C. U., in English)
- Introduction to Social Theory (Angelusz Róbert College for Advanced Studies in Social Sciences, 2018 autumn semester, in Hungarian)
- Statistics 1 (Societal Studies program, ELTE Faculty of Social Sciences, 2018 spring semester, in Hungarian)

## PUBLICATIONS

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- Juhász, S. *et al.* (2023) ‘Amenity complexity and urban locations of socio-economic mixing’, *EPJ Data Science*, 12(1), p. 34. <https://doi.org/10.1140/epjds/s13688-023-00413-6>
- Bene, M. *et al.* (2023) ‘Estimating the Energy Demand of the Residential Real Estate Stock in Hungary Based on Energy Performance Certificate Data’, *Financial and Economic Review*, 22(3), pp. 123–151. <https://doi.org/10.33893/FER.22.3.123>.
- Ertl, Antal, Áron Horváth, Gergely Mónus, Fanni Sáfián, and Judit Székely (2021) ‘The relationship of energy certificates and home prices’, *Statistikai Szemle* 99, sz. 10: 923–53. <https://doi.org/10.20311/stat2021.10.hu0923>.

## CONFERENCES, WORKSHOPS

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- Presentation at the 15th Conference of Young Demographers 2024 February: *Identifying Internal Migration Centers Across Different Spatial Scales*
- Poster at COMPLENET 2023: *Scaling of Community Structure in Internal Migration Networks*
- NETHIKE Social Network Analysis Summer University 2023 at ETH Zürich
- Presentation at the 6th European Conference on Social Networks 2022: *Understanding the multi-scale structure of macro-level internal migration networks*

- Poster at 13th Conference of Young Demographers 2022 February: *The recovery of migration streams after the economic crisis of 2008 in the Budapest agglomeration area*
- Presentation at Andorka Rudolf Memorial Conference 2021 September: *The changes of the migration system of the Budapest agglomeration area after the millennia*

## **SKILLS**

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- Advanced network science and social network analysis skills
- Proficient in statistical programming and software, both as a user and as a lecturer (R, Python, SPSS, Stata)
- Geographic Information Systems (ArcGIS and QGIS, GIS in R)
- Advanced English, beginner level Polish