

MÁTÉ KORMOS

LINKS

[Personal website](#), [GitHub](#)

EDUCATION

- 2025 – Postdoc in Statistics, Ghent University. Supervisor: Stijn Vansteelandt
- 2020 – (2025) PhD in Statistics, Leiden University (2020 – 2021), TU Delft (2021 –)
Thesis: *Topics in Causal Inference*
Supervisors: Stéphanie van der Pas and Aad van der Vaart
- 2018 – 2020 MPhil in Econometrics, Tinbergen Institute Amsterdam (TIA)
Thesis: *Kernel Density Estimation on Homomorphically Encrypted Data*
Supervisor: Charles S. Bos
- 2016 – 2018 MA in Economics (with distinction, US – Hungarian degree), Central European University (CEU)
Thesis: *Paired 2×2 Factorial Design for Treatment Effect Identification and Estimation in the Presence of Paired Interference and Noncompliance*
Supervisors: László Mátyás and Robert P. Lieli
- 2013 – 2016 BA in Applied Economics (with distinction), Corvinus University of Budapest
Thesis: *Binary Modelling of the Labour Force Participation of People with Special Needs*

RESEARCH

- 2025/02 *Interacting Treatments With Endogenous Takeup* with Robert P. Lieli and Martin Huber. Journal of Applied Econometrics: [link](#)
- 2024/01 *Posterolateral or Direct Lateral Surgical Approach for Hemiarthroplasty After a Hip Fracture* with APOLLO Research Team. JAMA Network Open: [link](#)
- 2023/04 *Asymptotics of Caliper Matching Estimators for Average Treatment Effects* with Stéphanie van der Pas and Aad van der Vaart. arXiv: [link](#)
- 2022/09 *Posterolateral or Direct Lateral Approach for Cemented Hemiarthroplasty After Femoral Neck Fracture (APOLLO): Protocol for a Multicenter Randomized Controlled Trial with Economic Evaluation and Natural Experiment Alongside* with APOLLO Research Team. Acta Orthopaedica: [link](#)

SOFTWARE

- 2023/10 R library `caliperMatching`: an R wrapper around `caliper_matching`. GitHub: [link](#)
- 2021 – 2023 C library `caliper_matching`: parallel, efficient and well tested implementation of the caliper matching estimator ([arxiv](#)). GitHub: [link](#)
- 2018 – 2020 Julia package `TreatmentEffects.jl`: implementation of treatment effect estimators: nearest neighbours matching, nonparametric regression discontinuity design, instrumental variables. GitHub: [link](#)
- 2020/08 C++ and Julia codes `HEKDE`: implementation of MPhil thesis *Kernel Density Estimation on Homomorphically Encrypted Data*. GitHub: [link](#)
- 2013 – 2023 Limited experience with Python, Matlab, Stata, Git, L^AT_EX.

EXPERIENCE

- 2025 spring TA of *Causal Machine Learning* (Vansteelandt), Ghent
- 2022 autumn TA of *Introduction to Probability and Statistics*, TU Delft
- 2022/23 spring TA of *Advanced Topics in Statistics: Causality* (Van der Vaart), TU Delft
- 2020 autumn Lecturer of *Quantitative Research Methods*, Leiden University College
- 2019 autumn TA of *Statistics* and *Principles of Programming in Econometrics* (Profs. Spreij and Bos), Tinbergen Institute
- 2018 summer Organiser and lecturer of *Econometrics in Julia* unofficial block course, CEU
- 2017 summer RA, CEU MicroData (Profs. Szeidl and Koren): regression design and implementation, research programming in Python and Stata
- 2015 – 2018 Member of *FAKT Collage for Advanced Studies* (Corvinus University of Budapest).
Leader and lecturer of FAKT teaching project: *Financial Literacy of High School Students*

PRESENTATIONS

- 2024/04 EuroCIM, Copenhagen, Denmark. Talk: *Causal Inference Under Local Differential Privacy*
- 2024/02 Cambridge, Stats Lab PhD Seminar. Talk: *Asymptotics of Caliper Matching Estimators for Average Treatment Effects*

2023/09	Amsterdam UMC, Internal Seminar. Talk: <i>Causal Inference under Privacy Protection</i>
2023/08	Channel Network Conference, Wageningen, The Netherlands. Talk: <i>Asymptotics of Caliper Matching Estimators for Average Treatment Effects</i>
2023/04	EuroCIM, Oslo, Norway. Talk: <i>Asymptotics of Caliper Matching Estimators for Average Treatment Effects</i>
2023/04	Netherlands Mathematics Congress, Utrecht, The Netherlands. Poster and flash talk: <i>Asymptotics of Caliper Matching Estimators for Average Treatment Effects</i>
2023/03	YES Workshop on Causal Inference, Eindhoven, The Netherlands. Poster: <i>Asymptotics of Caliper Matching Estimators for Average Treatment Effects</i>
2023/01	AI Convergence Meeting, Rotterdam, The Netherlands. Poster: <i>Asymptotics of Caliper Matching Estimators for Average Treatment Effects</i>
2022/12	ICSIDS, Florence, Italy. Poster: <i>Asymptotics of Caliper Matching Estimators for Average Treatment Effects</i>
2022/12	TU Delft, DIAM Statistics Internal Seminar. Talk: <i>Kernel Density Estimation on Homomorphically Encrypted Data</i>
2022/11	Amsterdam UMC, Internal Seminar. Talk: <i>Kernel Density Estimation on Homomorphically Encrypted Data</i>
2022/11	Stochastics Meeting, Lunteren, The Netherlands. Poster: <i>Asymptotics of Caliper Matching Estimators for Average Treatment Effects</i>
2022/08	StatMathAppli, Fréjus, France. Poster and flash talk: <i>Asymptotics of Caliper Matching Estimators for Average Treatment Effects</i>
LANGUAGES	Hungarian (native); English (fluent); Italian, Dutch (basic); Chinese/Mandarin (beginner)
LAST UPDATE	March 30, 2025