Marton Kovacs, PhD

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Scientific interest

- meta-research
- decision making
- open science
- cognitive control

Studies

- 2020 – 2025 Eotvos Lorand University, Doctoral School of Psychology, Behavioural Psychology Programme
- 2018 – 2020 Eotvos Lorand University, Faculty of Education and Psycholgy, Psychology MA, Cognitive psychology specialization
- 2016 – 2018 Illyes Sandor Professional College
- 2015 – 2018 Eotvos Lorand University, Faculty of Education and Psycholgy, Psychology BA
- 2015.01 – 2015.05 Non-Degree Seeking Undergraduate Program, Saint Vincent College, PA, USA
- 2010 – 2014 Benedictine High School of Pannonhalma

Working experience

- 2026 – Eotvos Lorand University, Faculty of Education and Psycholgy, Affective Psychology Department
  Assistant professor
- 2024 – Self-employed contractor
  Research and software development
- 2024 – 2025 Budapest Metropolitan University
  Contract-based external lecturer
- 2024 – 2025 Central Bank of Hungary (MNB)
  Teaching and research associate
- 2023 – 2024 John von Neumann University, MNB Institute
  Assistant lecturer

- 2016 – 2020 Eotvos Lorand University, Faculty of Education and Psycholgy, Affective Psychology Department
  Student demonstrator
- 2015 – 2020 Eotvos Lorand University, Faculty of Education and Psycholgy, Affective Psychology Department, Decisionlab
  Research assistant

Awards and scholarships

- 2023 – SIPS mission award for tenzing, a tool to document and report scientific contributions
- 2022/2023 – Fulbright scholarship recipient, Stanford University, METRICS Lab, Palo Alto, CA, USA
- 2020/2021 – ÚNKP New National Excellence Program of the Ministry of Human Capacities
- 2019/2020 – ÚNKP New National Excellence Program of the Ministry of Human Capacities
- 2019/2020 – National Higher Education Scholarship
- 2019 – Sapere Aude Junior award
- 2019 – Junior Pro Scientia Gold Medal
- 2019 – National Conference of Scientific Students Associations (OTDK) 1. place
- 2019 – National Conference of Scientific Students Associations (OTDK) special award
- 2018 – Institutional Conference of Scientific Students Associations (TDK) 2. place, ELTE PPK
- 2018/2019 – ÚNKP New National Excellence Program of the Ministry of Human Capacities
- 2018/2019 – National Higher Education Scholarship
- 2017/2018 – ÚNKP New National Excellence Program of the Ministry of Human Capacities
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- 2016/2017 – ÚNKP New National Excellence Program of the Ministry of Human Capacities
- 2016 – Institutional Conference of Scientific Students Associations (TDK) 2. place, ELTE PPK
- 2016 – Kardos Lajos national psychology competition 3. place
- 2015 – Institutional Conference of Scientific Students Associations (TDK) 2. place, ELTE PPK

Skills

- **Programming languages:** R (advanced), JavaScript (intermediate), Python (beginner), Vue (beginner), JSON (intermediate), Typescript (intermediate), React (intermediate), Prisma (intermediate)
- **Programs**: Opensesame, JASP, Qualtrics, Octave
- **Statistical methods:** multilevel regression models, taxometric analysis, Bayes factor analysis, thematic analysis

Language

- Romani, intermediate language exam, 2020
- English, advanced language exam, 2018

Publications, prerpints

- **Kovacs, M.**, Varga, M. A., Dianovics, D., Poldrack, R. A., & Aczel, B. (2024). Opening the black box of article retractions: exploring the causes and consequences of data management errors. *Royal Society Open Science*, *11*(12), 240844.
- Hosseini, M., Holcombe, A. O., **Kovacs, M.**, Zwart, H., Katz, D. S., & Holmes, K. (2024). Group authorship, an excellent opportunity laced with ethical, legal and technical challenges. *Accountability in Research*, 1-23.
- Knoechel, T., Schweizer, K., Acar, O. A., Akil, A. M., Al-Hoorie, A. H., Buehler, F., …, **Kovacs, M.**, …, Aczel, B. (2024, August 21). Principles for Responsible AI Usage in Research. https://doi.org/10.31234/osf.io/g3m5f
- Thibault, R. T., **Kovacs, M.**, Hardwicke, T. E., Sarafoglou, A., Ioannidis, J. P., & Munafò, M. R. (2023). Reducing bias in secondary data analysis via an Explore and Confirm Analysis Workflow (ECAW): a proposal and survey of observational researchers. *Royal Society Open Science*, *10*(10), 230568.
- Papalouka, S., **Kovacs, M.**, Munafo, M. R., & Thibault, R. T. (2023, November 22). Research Ethics Committees as an intervention point to promote a priori sample size calculations. https://doi.org/10.31222/osf.io/5sehd
- **Kovacs, M.**, Jaquiery, M., Algermissen, J., Arriaga, P., Gau, R., Gokce, A., … Aczel, B. (2022, September 19). Lab manuals for efficient and high quality science in a happy and safe work environment. https://doi.org/10.31222/osf.io/bzcxg
- Kekecs, Z., Palfi, B., Szaszi, B., Szecsi, P., Zrubka, M., **Kovacs, M.**, ... & Aczel, B. (2023). Raising the value of research studies in psychological science by increasing the credibility of research reports: the transparent Psi project. *Royal Society Open Science*, *10*(2), 191375.
- Sarafoglou, A., **Kovacs, M.**, Bakos, B., Wagenmakers, E. J., & Aczel, B. (2022). A survey on how preregistration affects the research workflow: Better science but more work. *Royal Society Open Science*, *9*(7), 211997.
- Bago, B., **Kovacs, M.**, Protzko, J., Nagy, T., Kekecs, Z., Palfi, B., ... & Matibag, C. J. (2022). Situational factors shape moral judgements in the trolley dilemma in Eastern, Southern and Western countries in a culturally diverse sample. *Nature human behaviour*, *6*(6), 880-895.

- **Kovacs, M.**, van Ravenzwaaij, D., Hoekstra, R., & Aczel, B. (2022). SampleSizePlanner: A tool to estimate and justify sample size for two-group studies. *Advances in Methods and Practices in Psychological Science*, *5*(1), 25152459211054059.
- **Kovacs, M.**, Hoekstra, R., & Aczel, B. (2021). The Role of Human Fallibility in Psychological Research: A Survey of Mistakes in Data Management. *Advances in Methods and Practices in Psychological Science*, *4*(4), 25152459211045930.
- **Kovacs, M.**, Holcombe, A., Aust, F., & Aczel, B. (2021). Tenzing and the importance of tool development for research efficiency. *Information Services & Use*, (Preprint), 1-9.
- Aczel, B., **Kovacs, M.**, van der Lippe, T., & Szaszi, B. (2021). Researchers working from home: Benefits and challenges. *PloS one, 16*(3), e0249127.
- Aczel, B., **Kovacs, M.**, Bognar, M., Palfi, B., Hartanto, A., Onie, S., ... & Evans, T. R. (2021). Is there evidence for cross-domain congruency sequence effect? A replication of Kan et al.(2013). *Royal Society open science*, *8*(3), 191353.
- McCarthy, R., Gervais, W., Aczel, B., Al-Kire, R. L., Aveyard, M., Marcella Baraldo, S., ... **Kovacs, M.**, … Zogmaister, C. (2021). A Multi-Site Collaborative Study of the Hostile Priming Effect. *Collabra: Psychology, 7*(1).
- Holcombe, A. O., **Kovacs, M.**, Aust, F., & Aczel, B. (2020). Documenting contributions to scholarly articles using CRediT and tenzing. *Plos one, 15*(12), e0244611.
- Gyurkovics, M., **Kovacs, M.**, Jaquiery, M., Palfi, B., Dechterenko, F., & Aczel, B. (2020). Registered Replication Report of Weissman, DH, Jiang, J., & Egner, T.(2014). Determinants of congruency sequence effects without learning and memory confounds. *Attention, Perception, & Psychophysics, 82(*8), 3777-3787.
- Ebersole, C. R., Mathur, M. B., Baranski, E., Bart-Plange, D. J., Buttrick, N. R., Chartier, C. R., … **Kovacs, M.**, ... Nosek, B. A. (2020). Many Labs 5: Testing pre-data-collection peer review as an intervention to increase replicability. *Advances in Methods and Practices in Psychological Science, 3*(3), 309-331.
- Buttrick, N. R., Aczel, B., Aeschbach, L. F., Bakos, B. E., Brühlmann, F., Claypool, H. M., … **Kovacs, M.**, … Wood, M. J. (2020). Many Labs 5: Registered Replication of Vohs and Schooler (2008), Experiment 1. *Advances in Methods and Practices in Psychological Science, 3*(3), 429-438.
- Skorb, L., Aczel, B., Bakos, B. E., Feinberg, L., Hałasa, E., Kauff, M., ... **Kovacs, M.**, … Hartshorne, J. K. (2020). Many Labs 5: Replication of van Dijk, van Kleef, Steinel, and van Beest (2008). *Advances in Methods and Practices in Psychological Science, 3*(3), 418-428.
- Mathur, M. B., Bart-Plange, D. J., Aczel, B., Bernstein, M. H., Ciunci, A., Ebersole, C. R., ... **Kovacs, M.**, … Kellier, D. (2018). Many Labs 5: Registered multisite replication of tempting-fate effects in Risen & Gilovich (2008). Advances in Methods and Practices in Psychological Science.
- Aczel, B., Palfi, B., Szollosi, A., **Kovacs, M.**, Szaszi, B., Szecsi, P., ... & Wagenmakers, E. J. (2018). Quantifying Support for the Null Hypothesis in Psychology: An Empirical Investigation. *Advances in Methods and Practices in Psychological Science*, 2515245918773742.

- Bőthe, B., **Kovács, M.**, Tóth-Király, I., Reid, R. C., Griffiths, M. D., Orosz, G., & Demetrovics, Z. (2018). The Psychometric Properties of the Hypersexual Behavior Inventory Using a Large-Scale Nonclinical Sample. *The Journal of Sex Research*, 1-11.
- McCarthy, R. J., Skowronski, J. J., Verschuere, B., Meijer, E. H., Jim, A., Hoogesteyn, K., ... **Kovacs, M.**, … Barbosa, F. (2018). Registered replication report on Srull and Wyer (1979). *Advances in Methods and Practices in Psychological Science*, 2515245918777487.
- Verschuere, B., Meijer, E. H., Jim, A., Hoogesteyn, K., Orthey, R., McCarthy, R. J., ... **Kovacs, M.**, … Barbosa, F. (2018). Registered replication report on Mazar, Amir, and Ariely (2008). *Advances in Methods and Practices in Psychological Science*, 2515245918781032.

Presentations, posters

- **Kovacs, M.** (2024) Exploring the Analytical Robustness of Social and Behavioral Science. The 2nd Annual MNB Institute – FISF Workshop. 28 November 2024. Online (Talk)

- **Kovacs, M.** (2024) Managing projects and documenting workflows. Behavioural Science Meets Metascience. 11 September 2024. Oxford University, St. John's College. (Talk)

- **Kovacs, M.** (2023) Transparency of Contributorship in the Time Of Big Science. CHARM-EU Open Science Day – Programme. 09. June 2023. Online (Talk)

- **Kovacs, M.** (2023) Using scientific publication databases for meta-research studies. Having the bird's eye view: Introduction to metascientific research practices. 23-24 November 2023. University of Zurich. (Talk)

- Aczel, B., **Kovacs, M.** (2022) Developing tools and practices to promote open and efficient science. 16 March 2022. Methods & MetaScience journal club at the University of Glasgow. https://psyteachr.github.io/mms/ Online (Talk)

- **Kovacs, M.** (2021) Documenting contributorship: Tenzing. Open Research Transparency workshop: new tools and practices to promote open and efficient science 29 April 2021. UKRN Workshop (Talk)

- **Kovacs, M.** (2019) Who knows what var4 stands for? On the importance of research data management standards. Second Best Practices in Data Analysis and Statistics Symposium 9 January 2019. Budapest (Talk)
- **Kovacs, M**., Szaszi, B., & Aczel, B. (2018) Hétköznapi tévedések. Sandor Illyes Memorial Days 19-20 March 2018. Budapest (Poster)
- Szecsi, P., Aczel, B., Szollosi, A., Palfi, B., Szaszi, B., **Kovacs, M.**, Zrubka, M., Wagenmakers, E. J. (2018) Interpreting nonsignificant findings in psychological research. Sandor Illyes Memorial Days 19-20 March 2018. Budapest (Poster)
- Palfi, B., Szollosi, A., Szaszi, B., **Kovacs, M.**, Zrubka, M., Szecsi, P., Aczel, B., & Wagenmakers, E. J. (2017) Interpreting nonsignificant findings in psychological research. CogSci. 39th Annual Meeting of the Cognitive Society. 26-29. July 2017. London. (Poster)

- Szecsi P., **Kovacs M.**, Szollosi A., Palfi B., Szaszi B., Salamon J., Zrubka M., & Kieslich P. (2017) An Empirical Inquiry of the Effect of Action Execution on the Decision Making Process. ICPS 23-25. March 2017. Vienna (Poster)
- Palinkas, A., Szaszi, B., Palfi, B., Szollosi, A., Zrubka, M., **Kovacs, M.**, & Aczel, B. (2017) Using Nudges: A Scoping Review of Applied Choice Architecture Techniques. ICPS 23-25. March 2017. Vienna (Poster)
- **Kovacs, M.** (2017) A biomechanikus költség hatásának vizsgálata döntéshozási feladatokban. ÚNKP New National Excellence Program of the Ministry of Human Capacities conference 05 May 2017. Budapest (Talk)
- **Kovacs, M.**, Szecsi, P., Palfi, B., Szollosi, A., Szaszi, B., Kieslich, P., & Aczel, B. (2016). Investigating embodied choice in the Guided Movement Task. In J. Funke, J. Rummel, & A. Voß (Eds.), *Abstracts of the 58th Conference of Experimental Psychologists*. (p. 170). Heidelberg, Germany: Pabst Science Publishers. (Talk)

Memberships

- 2018 – Psychological Science Accelerator (PSA)

  Member, Metascience Committee member, Data and Methods Committee associate director (2023 - 2025)

- 2018 – Society for the Improvement of Psychological Science (SIPS)

  Member

Teaching experience

- 2024 fall, Research methodology (BMU, MNB Institute), MA
- 2023 spring, Intensive Field Training in Cognitive Psychology (ELTE), MA
- 2023 fall, Applied Research Methods for Thesis Development (ELTE), MA
- 2023 fall, Foundations of quantitative methods (NJE, MNB Institute), MA
- 2022 spring, Research fieldwork in general psychology and social psychology (ELTE), BA
- 2022 spring, Final thesis supervision (ELTE), BA
- 2022 spring, Introductory Statistics course for psychology (ELTE), BA
- 2022 fall, Research fieldwork in general psychology and social psychology (ELTE), (English and Hungarian), BA
- 2022 fall, Introductory Statistics course for psychology (ELTE), BA
- 2021 spring, Introductory Statistics course for psychology (ELTE), BA

- 2021 spring, Best practices in psychological science course (ELTE), BA and MA
- 2021 spring, Research fieldwork in general psychology and social psychology (ELTE), BA
- 2021 spring, Final thesis supervision (ELTE), BA

Other professional activities

- 2022 – Co-founder of the ContributorShip Collaboration, established with Alex Holcombe to advance contributorship in research. https://contributorshipcollaboration.github.io/
- 2023 – 2024 Supervision of student research and presentation for the National Conference of Scientific Students Associations, MNB Institute, BMU
- 2022 – 2023 Supervision of student research and presentation for the National Conference of Scientific Students Associations, at the MNB Institute, NJE
- 2021 – 2023 Supervision of student research and presentation for the ÚNKP New National Excellence Program of the Ministry of Human Capacities
- 2020 – 2022 Supervision of student research and presentation for the National Conference of Scientific Students Associations
- 2018 Methodology workshop on the Delphi consensus design process (presenter), University of Amsterdam and the University of Groningen

Science communication & outreach

- **Kovacs, M. (2025, March 26).** *Ingyenmunka a tudományban.* Economania. https://economaniablog.hu/2025/03/26/ingyenmunka-a-tudomanyban/
- **Kovacs, M. (2024, February 27).** *A tudományos önkorrekció ködös útja a megbízható tudás felé.* Economania. https://economaniablog.hu/2024/02/27/a-tudomanyos-onkorrekcio-kodos-utja-a-megbizhato-tudas-fele/
- **Kovacs, M. (2023, October 10).** *Az ember a tudós mögött.* Economania. https://economaniablog.hu/2023/10/10/az-ember-a-tudos-mogott/

Featured mentions

- Conroy, G. (2025 January 14). *Retractions caused by honest mistakes are extremely stressful, say researchers.* Nature News. https://www.nature.com/articles/d41586-025-00026-1
- Veissier, L. (2025 February 21). *Ces bourdes qui mènent à la rétractation.* TheMetaNews. https://themeta.news/ces-bourdes-qui-menent-a-la-retractation/