

Koltai Júlia

Kutató, Kutatóprofesszor (TK Recens)

- **Tudományos cím vagy fokozat:** PhD
- **E-mail:** koltai.julia@tk.hun-ren.hu
- **Telefonszám:** +36 1 224 6700 / 5454
- **Épület:** T. (Emelet, szobaszám: 1.25.)

Kiemelt publikációk

Kiemelt publikációk az elmúlt 5 évből

2022 Understanding hesitancy with revealed preferences across COVID-19 vaccine types. Scientific Reports 12(13293). (társszerzők: Kutasi Kristóf, Szabó-Morvai Ágnes, Röst Gergely, Karsai Márton, Biró Péter és Lengyel Balázs)

2022 Reconstructing social mixing patterns via weighted contact matrices from online and representative surveys. Scientific Reports 12(4690). (társszerzők: Vásárhelyi Orsolya, Röst Gergely és Karsai Márton)

2021 The presence of occupational structure in online texts based on word embedding NLP models. EPJ Data Science 10(55). (társszerzők: Kmetty Zoltán és Rudas Tamás)

2021 “Splendid Isolation”: The reproduction of music industry inequalities in Spotify’s recommendation system. New Media & Society. Online first. (társszerzők: Tófalvy Tamás)

2021 The increasing importance of friends: Changes in core discussion network composition in post-communist Hungary between 1997 – 2015. Social Networks 66. pp. 139-145. (társszerzők: Albert Fruzsina és Dávid Beáta)

2021 Discovering sociological knowledge through automated text analytics In: Rudas Tamás – Péli Gábor (szerk.) Pathways Between Social Science and Computational Social Science – Therories, Methods and Interpretations. New York, NY, Springer. (társszerző: Németh Renáta)

2020 The Impact of COVID-19 on the Gender Division of Childcare Work in Hungary. European Societies 23(sup1) pp. S95-S110. (DOI: 10.1080/14616696.2020.1817522) (társszerzők: Fodor Éva, Gregor Anikó és Kovács Eszter)

2020 Exploring the Dynamic Changes of Key Concepts of the Hungarian Socialist Era with Natural Language Processing Methods. Historical Methods: A Journal Of Quantitative And Interdisciplinary History. (társszerzők: Szabó Martina Katalin, Ring Orsolya, Nagy Balázs, Kiss László, Berend Gábor,

Vidács László, Gulyás Attila és Kmetty Zoltán)

2019 Collapse of an online social network: Burning social capital to create it? In: Social Networks 57: 43-53. (társszerzők Lőrincz László, Győr Anna Fruzsina és Takács Károly)

2018 Core Ties Homophily and Sociocultural Divides in Hungary from 1987 to 2015 In: International Journal of Sociology. 47(3): 228-249. (társszerzők Kmetty Zoltán and Tardos Róbert)

Projektek

2022-2027 vezető kutató

Magyar Tudományos Akadémia Lendület pályázata. Kutatás címe: Társadalmi struktúra és egyenlőtlenség a digitális adatok tükrében. Kutatócsoport neve: MTA–TK Lendület Társadalmi Rétegződéssel Foglalkozó Digitális Társadalomtudományi Kutatócsoport

2022-2026 vezető kutató

NKFIH Nemzeti Laboratórium Program (RRF-2.3.1-21-2022-00006) Kutatócsoport neve: Egészségbiztonság Nemzeti Laboratórium Társadalomtudományi Kutatócsoport.

2022-2025 nyertes társpályázó

A Vienna Science and Technology Fund (WWTF) pályázata. Kutatás címe: „Humanized Algorithms: Identifying and Mitigating Algorithmic Biases in Social Networks”. Vezető kutató: Fariba Karimi (Complexity Science Hub, Bécs), társpályázó: Markus Strohmaier (RWTH Aachen)

2019-2024 vezető kutató

NKFIH OTKA pályázat: Az 1945 és 1989 közötti sajtó társadalomtörténeti elemzése a természetesnyelv-feldolgozás (NLP) módszereivel (FK131826)

2019-2022 vezető kutató

Magyar Tudományos Akadémia Prémium Posztdoktori Ösztöndíjprogram. Kutatás címe: A Big Data és a Természetes Nyelvfeldolgozás módszereinek alkalmazása a társadalomtudományokban

Tudományos pályafutás

2022 - Tudományos főmunkatárs
Computational Social Science - Research Center for Educational and Network Studies (CSS-RECENS), HUN-REN TK
2020-2022 Kutató
Szegedi Tudományegyetem, Bolyai Intézet, Koronavírus Team
2019-2022 Prémium posztdoktori kutató
Computational Social Science - Research Center for Educational and Network Studies (CSS-RECENS), TK
2014-2018 Tudományos munkatárs
MTA TK, Szociológiai Intézet

Tanulmányok, képzések

2022 Habilitáció
ELTE Társadalomtudományi Kar
2007-2013 PhD
ELTE Szociológia Doktori Iskola
2002-2007 Szociológia, survey statisztika
ELTE Társadalomtudományi Kar, Szociológia egyetemi képzés
1996-2002 érettségi
ELTE Radnóti Miklós Gyakorló Gimánzium

Szakmai szervezeti és szerkesztőbizottsági tagságok, felelősségek

Membership of scientific associations
International Sociological Association
International Sociological Association RC28 – Social Stratification
International Sociological Association RC33 – Logic and Methodology in Sociology
Complex Systems Society
Magyar Szociológiai Társaság (Hungarian Sociological Association)
Hungarian Academy of Sciences, IX. Section of Economics and Law - including sociology, demography and political sciences
Roles in Scientific Journals
Szociológiai Szemle (Review of Sociology): editor in chief
Methods and Measurement (Frontiers): editor

Fontosabb konferenciák

2021

Why Do Social Networks Die? Keynote presentations at the conference Women in Data Science Central and Eastern Europe. Online. Chair at the Conference on Complex Systems 2021. Title of Session: Social Complexity III. Lyon, France.
Reconstructing social mixing patterns via weighted contact matrices from online and representative surveys. Presentation at the satelite event ’Complex Systems for the Most Vulnerable’ of the Conference on Complex Systems 2021 Lyon, France. (co-authors: Márton Karsai, Orsolya Vásárhelyi, and Gergely Röst) Chair at the Networks 2021 (joint Sunbelt and NetSci) conference. Title of Session: Social Media & Online Networks. Online.
“Splendid Isolation”: A Network Based Reproduction of Geographic Inequality in Spotify’ Recommendation System. Presentations at the Networks 2021 (joint Sunbelt and NetSci) conference. Online. (co-author: Tófalvy Tamás)
Age contact matrix reconstruction from online and representative samples. Presentations at the Networks 2021 (joint Sunbelt and NetSci) conference. Online. (co-authors: Orsolya Vásárhelyi, Gergely Röst, and Márton Karsai)

Mapping the network of anti-vaccine and pro-vaccine supporters' – Two discourses, opposite worlds? Presentations at the Networks 2021 (joint Sunbelt and NetSci) conference. Online. (co-authors: Zoltán Kmetty, Eszter Katona; Krisztián Boros, Anna Molnár, and Bence Ságvári)
The increasing importance of friends: Changes in core discussion network composition in post-communist Hungary between 1997 – 2015. Presentations at the Networks 2021 (joint Sunbelt and NetSci) conference. Online. (co-authors: Beáta Dávid and Fruzsina Albert)
Context of Burtiness in Facebook Activities. Poster at the Networks 2021 (joint Sunbelt and NetSci) conference. Online. (co-authors: Zoltán Kmetty, Márton Karsai and János Kertész)
Detecting Latent Changepoints with Topic Model. Presentation at the yearly meeting of the International Sociological Association RC33 Logic & Methodology in Sociology. Online. (co-author: Anna Molnár)
Társadalmi egyenlőtlenségek megjelenése a járványterjedésben.[The emergence of social inequalities in the spread of epidemics] Presentation at the COVID-19 Conference of Milton Friedman University. online (co-author: Márton Karsai)

2020

Context of burstiness in Facebook activities? Poster presentation at the International Conference on Computational Social Science. MIT - Massachusetts Institute of Technology – online due to COVID-19. (co-authors: Zoltán Kmetty, Márton Karsai and János Kertész)
Does diversity kill OSNs? Poster presentation at the International Conference on Computational Social Science. MIT - Massachusetts Institute of Technology – online due to COVID-19 (co-authors: László Lőrincz, Johannes Wachs, and Károly Takács)
Keynote speaker. Title of the talk: Az iWiW összeomlása – Felégetjük-e kapcsolati tőkénket azért, hogy újat teremtsünk? (The collapse of the social network iWIW– do we burn our social capital to create new?) A Magyar Internet Történetei Konferencia. (Conference on the Stories of the Hungarian Internet) Budapest University of Technology and Economics, Budapest, Hungary
Organizer of the regional event of Stanford University's conference series, Women in Data Science. Central European University, Budapest. (co-organizer: Orsolya Vásárhelyi) Co-organizer of the Workshop on the Concept of Quality for Big Data. Eötvös Loránd University, Faculty of Social Sciences, Budapest, Hungary. (co-organizer: Tamás Rudas and Renáta Németh)
Does diversity kill OSNs? Presentation at the Sunbelt Conference (biyearly conference of the International Network for Social Network Analysis). Paris, France – online due to COVID-19. (co-authors: László Lőrincz, Johannes Wachs, and Károly Takács)

2019

The Presence of Social Structure in Online Texts Based on Word Embedding NLP Models. Presentation at ISA (International Sociological Association) RC28 Summer Meeting. Princeton University, New Jersey, USA. (co-authors: Kmetty Zoltán and Rudas Tamás)
Assessing the Effect of Questionnaire Design on Unit and Item Nonresponse: Evidence from an Online Experiment. Presentation at the conference of the European Survey Research Association (ESRA). Zagrab, Croatia. (co-authors: Kmetty Zoltán and Stefkovics Ádám)
The Presence of Social Structure in Online Texts Based on Word Embedding NLP Models. Presentation at the International Conference on Computational Social Science. University of Amsterdam, The Netherlands. (co-authors: Kmetty Zoltán and Rudas Tamás)
Does diversity kill OSNs? Poster presentation at the Conference on Complex Networks. Lisbon, Portugal. (co-authors: László Lőrincz, Johannes Wachs, and Károly Takács)

Organizer of the regional event of Stanford University's conference series, Women in Data Science. Central European University, Budapest. (co-organizer: Orsolya Vásárhelyi)

2018

Old problems, new approaches: temporal trends of suicide related expressions in different online social media networks - a multiplatform study. Presentation at the XXXVIII Sunbelt Conference. University of Utrecht, The Netherlands. (co-authors: Károly Bozsonyi and Zoltán Kmetty)
A big data lehetséges szerepe a választási előrejelzésekben: egy módszertani kísérlet. (The Potential Role of Big Data in Estimating Party Preferences: a Methodological Experiment) Presentation at the 24th Conference of the Hungarian Association of Political Science. Budapest, Hungary. (co-author: Ádám Stefkovics)
The changes of attitudes towards immigrants in the turbulent years of the anti-immigrant campaign in Hungary. Presentation at the European Social Survey - 2nd ESS Visegrad Regional Network Conference. Budapest, Hungary. (co-author: Ildikó Barna)

2017

The diverse role of social network in the transmission of inequalities. Presentation at the ISA (International Sociological Association) RC28 Summer Meeting. Columbia University, New York, USA. (co-author Zoltán Kmetty)
Collapse of an Online Social Network: The Blame on Social Capital. Presentation at 3rd European Conference on Social Networks. Mainz, Germany (co-authors László Lőrincz, Anna Győr and Károly Takács)
Theory in practice. Diffusion of and innovation in social and physical space. Presentation at the Computational Social Science at Work: Life Cycle of an Online Social Network. Budapest, Hungary. (co-author Bence Ságvári)
Collapse of an Online Social Network: The role of social capital. Presentation at the Computational Social Science at Work: Life Cycle of an Online Social Network. Budapest, Hungary. (co-authors László Lőrincz, Anna Győr and Károly Takács)
Core discussion network stability and changes over 20 years between 1997 and 2015. Presentation at the 64th Jour Fixe, Academic Symposium. Hungarian Academy of Sciences, Centre for Social Sciences, Institute of Sociology. Budapest, Hungary (co-authors: Fruzsina Albert and Beáta Dávid)
The diverse role of social network in the transmission of inequalities. Presentation at the 61st Jour Fixe, Academic Symposium. Hungarian Academy of Sciences, Centre for Social Sciences, Institute of Sociology. Budapest, Hungary (co-author: Zoltán Kmetty)
Az egyenlőtlenségek továbbörökítésének kapcsolathálózati aspektusai (The network aspects of the transmission of inequalities). Presentation at the Conference of the Birthday of Rudolf Andorka. Budapest, Hungary (co-author: Zoltán Kmetty)
Szülői egészségértés és vakcinációs hajlandóság 2017-ben Magyarországon (Parental Health Literacy and Willingness of Vaccination in Hungary 2017). Presentation at the Annual Conference of the Association of Hungarian Pediatritians. Győr, Hungary. (coauthors: Zsófia Gács and Eszter Kun)
Juvenilis idiopathias arthritissel gondozott gyermekek szüleinek egészségértése (Health Literacy of parents of children with Juvenilis idiopathias arthritis) Presentation at the Annual Conference of Hungarian Rheumatologists. Siófok, Hungary. (co-authors: Zsófia Gács, Bianka Gaál, Angelika Kovács, Emese Kovács, Petronella Purgai, Gábor Csanády and Tamás Constantin)
Minden, amit tudni akartál a logisztikus regresszióról, de nem merted megkérdezni (Everything you wanted to know about logistic regression, but was afraid to ask) Presentation of the 'Módszeresen' –

Regular Presentation on Social Research Methodology. Budapest, Hungary (co-author: Dorottya Kisfalusi)

Díjak

Successful Grants and Awards

2022-2027

“Momentum” Research Grant of the Hungarian Academy of Sciences. Title of the research: Social Structure and Inequalities Through the Lens of Digital Data. Name of the research group: MTA–TK Lendület “Momentum” Digital Social Science Research Group for Social Stratification (DS4 Momentum Research Group)

2022-2026

National Laboratory Program of the National Research, Development and Innovation Office in Hungary (RRF-2.3.1-21-2022-00006) Name of the research group: Social Science Research Group, National Laboratory for Health Security

2022-2025
Co-applicant of the grant 'Humanized Algorithms: Identifying and Mitigating Algorithmic Biases in Social Networks.' Principal investigator: Fariba Karimi (Complexity Science Hub, Vienna). Other co-applicant: Markus Strohmaier (RWTH Aachen). (part of the funding for Centre for Social Sciences: 25.150 euro)
2019-2022
Grant of the Premium Postdoctoral Research Program at the Hungarian Academy of Sciences. Title of the research: ’The application of Big Data and Natural Language Processing in the Social Sciences’ (funding: ~97.000 euro)
2019-2024
Principal investigator of the Grant of the National Research, Development and Innovation Office in Hungary. Title of the research: „Social history analysis of the press between 1945 and 1989 with the methods of natural language processing (NLP)" (funding: ~78.000 euro)
2020
Award for the year’s promising resarcher of Faculty of Social Sciences, Eötvös Loránd University
2020
Award for the most prestigous publication of the year 2019. Hungarian Academy of Sciences, Centre for Social Sciences, Computational Social Science - Research Center for Educational and Network Studies (CSS-RECENS)
2017-2018
Grant of the New National Excellence Programme. Title of the research: Big Data in Social Sciences: Possibilities and Methodological Challenges of New Type of Data. (funding: ~9.000 euro)
2007-2010
Grant of the ELTE Doctoral School of Sociology
2007
Award for the best thesis (Faculty of Social Sciences, Eötvös Loránd University)
2006-2007
Grant of the Republic
2005-2006
Grant of the Republic

2004-2005
Grant of the Republic

Oktatási tevékenység

2022- habilitált egyetemi docens
ELTE Társadalomtudományi Kar, Empirikus Tanulmányok Intézete, Társadalomkutatások Módszertana Tanszék
2023 nyári egyetemi oktató
Summer School in Social Research Methods (SSSRM) organised by MethodsNET and Radboud University (courses: Survey and Questionnaire Design; Intro to Math for Social Scientists)
2022 nyári egyetemi oktató
Summer School in Social Research Methods (SSSRM) organised by MethodsNET and Radboud University (courses: Survey and Questionnaire Design; Regression 2: Logistic Regression and General Linear Models: Binary, Ordered, Multinomial and Count Outcomes; Intro to Math for Social Scientists)
2019-2021 meghívott oktató
Central European University, Department of Network and Data Science (courses: Social Networks 1; Social Networks 2; Introduction to Programming in Python)
2019-2020 téli egyetemi oktató
European Consortium for Political Research (ECPR) Winter School in Methods and Techniques at the University of Bamberg. (course: Structural Equation Modeling in R)

2018-2019 nyári egyetemi oktató

European Consortium for Political Research (ECPR) Summer School in Methods and Techniques at the Central European University. Title of the courses: „Introduction to Logistic Regression and General Linear Models: Binary, Ordered, Multinomial and Count Outcomes", „Math for Social Scientists" and „Survey Design and Analysis"
2014-2022 egyetemi adjunktus
ELTE Társadalomtudományi Kar, Empirikus Tanulmányok Intézete, Társadalomkutatások Módszertana Tanszék
2009-2010 külső óraadó
Széchenyi István Szakkollégium
2008- 2014 tanársegéd
ELTE Társadalomtudományi Kar, Társadalomkutatások Módszertana Tanszék
2007-2008 óraadó (PhD hallgató)
ELTE Társadalomtudományi Kar, Társadalomkutatások Módszertana Tanszék
2005-2008 Matematikai statisztikai tanácsadó testületi tag
ELTE Társadalomtudományi Kar, Matematikai Statisztika Tanácsadó Testület
2004-2005 demonstrátor
ELTE Társadalomtudományi Kar, Statisztika Tanszék

További munkahelyek

2016-2017 analyst researcher of the research on Hungarian Parental Health Literacy
Szinapszis Ltd.

2017 expert on research methodology of the research about the practical realization of the directive on access to a lawyer

Hungarian Helsinki Committee
2015 expert on research methodology of the research about the understanding the letter of rights
Hungarian Helsinki Committee
2015 analyst researcher of the research on Hungarian Health Literacy – connected to The European Health Literacy Project
Szinapszis Ltd.
2013 Creation of the research design, empirical and analytical researcher in the research on disciplinary procedures in the Hungarian detention facilities
Hungarian Helsinki Committee
2011-2013 researcher – processing and analyzing archives data, making and analyzing interviews
National Municipality of the Hungarian Greeks – „Research on the Hungarian Greek people”
2007 weighting data of empirical databases
TÁRKI Zrt. – Tamás Rudas

Egyéb önéletrajzi információ

Professional knowledge of Microsoft Office programs (Word, Excel and PowerPoint)
Professional knowledge of Python
Professional knowledge of R
Professional knowledge of SPSS (Statistical Package of Social Sciences)
Professional knowledge of AMOS (program for Structural Equation Modelling)
Professional knowledge of STATA (statistical program)
Knowledge of Clementine (datamining program)

Nyelvtudás

- Angol (Felsőfokú)
- Francia (Középfokú)