

ORSOLYA

VÁSÁRHELYI

COMPUTATIONAL

SOCIAL SCIENTIST

CONTACT

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RESEARCH INTERESTS

| Computational Social Science | Gender Diversity & Inclusion | Algorithmic Bias | Human-AI Interactions | Interpretable AI | Data Science for Social Good | Spatial Inequalities |

TECHNICAL SKILLS

| Python | SQL | R | Data mining | Data Visualisation | Multivariate Statistics | Statistical Modelling | Machine Learning | Network Science | Qualitative Techniques | Spatial Modelling |

SELECTED SCHOLARSHIPS

WomEncourage ACM Grant, Rome, Italy, 2019.
Facebook WiDS MicroFellowship, Stanford, CA, USA, 2019.
DRSG Northwestern University, Chicago, IL, USA, 2019.
Data Science for Social Good Fellowship, Lisbon, Portugal 2018.
WomEncourage ACM Grant, Barcelona, Spain 2017.
Grace Hopper Scholar, GHC, Orlando, FL, US, 2017.
PyCon, Diversity Grant, Portland, OR, USA, 2016.
NetSciX Young Researcher Conference Grant, Tel-Aviv, Israel, 2016.
Bridge Budapest Fellowship, UAE, South Korea, India, Japan, 2015.
Erasmus Scholarship. Brussels, Belgium, 2010

COMMUNITY SERVICE

2023. Program Committee Member WebSci23
2021-2022 Advisory Board Member of the Global Women in Data Science Initiative at Stanford University
2020. Organizer of the Women in Data Science (WiDS) Central and Eastern Europe Conference
2018- Women in Data Science @ Stanford University
2017- Ambassador of Budapest

HOBBIES

| Climbing | Hiking | Yoga |



EXPERIENCE

2022

MATERNITY LEAVE

2021

POSTDOCTORAL RESEARCHER

Corvinus University of Budapest | April 2021 - | Budapest, Hungary
Postdoctoral Research Fellow Networks, Technology, & Innovation (NETI)
Lab PIs: Balázs Lengyel, László Lörincz

2020

POSTDOCTORAL RESEARCHER

University of Warwick | Sept 2020 - Aug 2021 | Coventry, UK
Postdoctoral Research Fellow as part of the European Research Council Advanced Senior Investigator Award entitled *Diversity and Performance: Networks of Cognition in Markets and Teams*. PI: Prof. David Stark

2019

VISITING RESEARCHER

Northwestern University | March - July 2019 | Chicago, IL, US
Data Scientist at Ágnes-Emőke Horvát's Lab, at the Department of Communication Studies.

2018

DATA SCIENCE FOR SOCIAL GOOD FELLOW

Data Science for Social Good | June - Aug 2018 | Lisbon, Portugal
The Data Science for Social Good Fellowship is a University of Chicago summer program to train aspiring data scientists to work on data science projects with social impact.

2017

DATA SCIENTIST, GRADUATE INTERN

Typeform | June 2017 - Jan 2018 | Barcelona, Spain
Building a prediction model for product adoption through virality using large-scale data, and network science techniques.



EDUCATION

PHD IN NETWORK AND DATA SCIENCE

Central European University | 2015 - 2020 | Budapest, Hungary
Thesis: *Computational and Relational Understanding of Gender Inequalities in Science and Technology*, Supervisor: Balázs Vedres

M.SC IN STATISTICS

Eötvös Lóránd Universtiy | 2010 - 2012 | Budapest, Hungary

BA IN SOCIAL SCIENCES

Saint-Louis University | 2009 - 2010 | Brussels, Belgium
Eötvös Lóránd Universtiy | 2007 - 2010 | Budapest, Hungary



TEACHING EXPERIENCE

2020-

PYTHON PROGRAMMING FOR SOCIAL SCIENTISTS

Lecturer | ECPR, Summer School | Online Edition | (2020-)
Lecturer | ECPR, Winter School | University of Leuven | Leuven Belgium | (2022-)
Lecturer | ECPR, Winter School | University of Bamberg | Bamberg, Germany | (2020-2021)
Lecturer | GESIS - Leibniz Institute for the Social Sciences, | Online Edition | Cologne | Germany | (2021-)

2019

INTRODUCTION TO APPLIED SOCIAL NETWORK ANALYSIS

Lecturer | ECPR, Summer School | CEU | Budapest, Hungary
Teacher Assistant of Silvia Friarescu, | ECPR, Winter School | University of Bamberg | Bamberg, Germany

2018

APPLIED TEXT ANALYSIS FROM CLOSE READING TO MACHINE LEARNING

Teacher Assistant of Levente Littvay & Jessie Labov
CEU | Budapest Hungary

2017

SCIENCE OF SUCCESS

Teacher Assistant of Albert-László Barabási
CEU | Budapest Hungary

2016

DATA ANALYSIS WITH PYTHON

Lecturer | Eötvös Lóránd University, Budapest, Hungary

2015

INTRODUCTION TO NETWORK SCIENCE

Teacher Assistant of Albert-László Barabási
CEU | Budapest Hungary

PUBLICATIONS

Published Papers

- **Vásárhelyi, O.** & Horvát, E. Á. ,Who benefits from altmetrics? The effect of team gender composition on the link between online visibility and citation impact (2023). Proceedings 19th International Society of Scientometrics and Informetrics Conference, Bloomington, Indiana (accepted)
- Koltai, J., **Vásárhelyi, O.**, Röst, G., & Karsai, M. (2022). Reconstructing social mixing patterns via weighted contact matrices from online and representative surveys. *Scientific Reports*, 12(1), 1-12.
- **Vásárhelyi, O.**, Zakhlebin, I., Milojević, S., & Horvát, E. Á. (2021). Gender inequities in the online dissemination of scholars' work. *Proceedings of the National Academy of Sciences*, 118(39).
- Karsai, M., Koltai, J., **Vásárhelyi, O.** and Röst, G., 2020. Hungary in mask/maszk in Hungary. *Corvinus Journal of Sociology and Social Policy*, (2).
- **Vásárhelyi O.**: Computational and relational understanding of gender inequalities in science and technology. Dissertation. Central European University Budapest, Hungary 2020.
- Natera, L., Deritei, D., Vancsó A., **O. Vásárhelyi**: Quantifying life quality as walkability on urban networks: the case of Budapest in *Complex Networks and Their Applications VIII*, Springer International Publishing, 2020.
- B. Vedres & **O. Vásárhelyi**: Gendered behavior as a disadvantage in open source software development, *EPJ Data Science* 8 (1), 25, 2019.

Working Papers

- **Vásárhelyi, O.**, Brooke, S.(2023). Computing Gender. In: T. Yasseri (Ed.), Handbook of Computational Social Science. Edward Elgar Publishing Ltd. (*under review*)
- **Vásárhelyi, O.** & B. Vedres, B.: Inclusion unlocks the creative potential of gender diversity in teams (*under review*)
- **Vásárhelyi, O.**, Barnett, J., Milojević, S., & Horvát, E. Á.: Intersectional Inequalities in the Impact of Online Visibility on Citations
- Abreu, M., Han, Q., Zejnilovic, L., **Vásárhelyi, O.**, Wang, Y., Mohan, L., Del Papa, B.: Investigating tourist personas with spatial behaviour: a case study using large-scale mobile signalling data

CONFERENCE TALKS

Contributed Talks

The role of gender diversity and inclusion in success and creativity in the video game industry, **Networks2021**, Boston, MA, USA (online), 2021

Why diversity is not enough? **Grace Hopper Celebration of Women in Computing**, (vGHC) 2020.

Gender diversity in collaboration networks and the online popularity of scientists, **IC2S2**, Cambridge, MA, USA, (online) 2020.

Gender diversity in collaboration networks and the online popularity of scientists, **NetSci**, Rome, Italy, (online) 2020.

Gender diversity in collaboration networks and the online popularity of scientists, **NetSciX**, Tokyo, Japan, 2020.

Gender diversity in collaboration networks and online popularity of scientists, **Complex Networks**, Lisbon, Portugal, 2019.

Does social media democratize science? The role of gender homophily in scientific success, **WomEncourage ACM**, Rome, Italy, 2019.

Introducing WiDS Budapest, **WiDS annual ambassador meeting @Stanford University**, Stanford, CA, USA, 2019.

Why Gender Diversity is not enough? **NICO Lightning Talks Session**, **Northwestern University**, Chicago, IL, USA, 2019.

Gendered creative careers in software development, **Gendered Creative Teams Workshop CEU** Budapest, Hungary, 2017.

Why women leave IT? **WiDS Budapest**, Budapest Hungary, 2017.

Poster Sessions

Gendered behavior as a disadvantage in open source software development, **NetSciX**, Tokyo, Japan, 2020.

Does Open Source Open Doors? **ACM Student Research Competition**, **GHC18**, Houston, TX, USA, 2018.

Gendered creative careers in software development, **WomEncourage ACM 2017**, Barcelona, Spain

Gender homophily and success on GitHub, **NetSciX**, Tel-Aviv, Israel, 2017.

The effect of team gender homophily on female developers' career, **CSS Winter Symposium**, Cologne, Germany, 2016.