

## **CURRICULUM VITAE**

### **Attila Varga**

Indiana University  
Luddy School of Informatics,  
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## **ACADEMIC APPOINTMENTS**

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2020 – present, Postdoctoral Fellow  
Indiana University  
Center for Complex Networks and Systems Research  
Luddy School of Informatics, Computing, and Engineering

## **EDUCATION**

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2020 PhD in Sociology  
University of Arizona, Tucson, AZ  
Thesis: “Temporal Evolution of Scholarly Communication”  
Committee: Ronald Breiger (co-chair), Erin Leahey (co-chair), Yotam Shmargad

2006 MA in Sociology  
University of Szeged, Hungary

2004 BA in Sociology  
University of Szeged, Hungary

## **RESEARCH AND TEACHING INTERESTS**

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Complex Systems, Networks, Science of Science, Data Science

## **TO BE SUBMITTED**

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2022 Kojaku S, Boothby C, Varga A, Ahn Y, Flamini A, Menczer F, Milojevic S “Mapping scientific foraging”

## **PUBLICATIONS**

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2022. Varga A “The Narrowing of Literature Use and the Restricted Mobility of Papers in the Sciences” *Proceedings of the National Academy of Sciences of the United States of America* 119(17): e2117488119

2019. Varga A "Shorter Distances between Papers over Time are Due to More Cross-Field References and Increased Citation Rate to Higher Impact Papers." *Proceedings of the National Academy of Sciences of the United States of America* (116)44: 22094-22099p.

2018. Varga A "Novelty and Foreseeing Research Trends; The Case of Astrophysics and Astronomy." *The Astrophysical Journal Supplement Series* (236)21: 15p.

2015. Lengyel B, Varga A, Ságvári B, Jakobi Á, Kertész J "Geographies of an Online Social Network." *PLoS ONE* 10(9): e0137248: 13p.

2015. Varga A "Changes of Personal Network Composition and Inter-Group Ties from 1987 to 2005 in Hungary." *Belvedere* 24(4): 131-134.

2012. Varga A and Nemeslaki A "Do organizational network studies constitute a cohesive communicative field? Mapping the citation context of organizational network research." *The Journal of Sociology and Social Anthropology* 15(5): 348-363.

2011. Varga A "Measuring the Semantic Integrity of Scientific Fields: a Method and a Case Study of Sociology." *Scientometrics* 88(1): 163-177.

## **CONFERENCE PRESENTATIONS**

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2022. "The Narrowing of Literature Use and the Restricted Mobility of Papers in the Sciences." *International Conference on the Science of Science of Science and Innovation*, Washington, DC

2018. "Transitivity and Synchronicity in Scientific Discovery: Simultaneous Exploration of Embedded Knowledge." *Mathematical Sociology Regular Session, American Sociological Association, 2018 Annual Meeting*, Philadelphia, PA

2013. Varga A, Eliason S "Changes in the Relationships of Macro-Groups in Multiple Dimensions: an Analysis of the 1985 and 2004 General Social Survey Datasets." *International Network for Social Network Analysis, XXXIII Sunbelt*, Hamburg

2012. Varga A "Do organizational network studies constitute a cohesive communicative field? Mapping the citation context of organizational network research." *Networks in the Global World*, St. Petersburg

2011. Varga A "Uncertainty in Social Networks." *Netsci 2011*. Budapest

2011. Szanyi A, Varga A "Aesthetic and Social Structure of the Hungarian Contemporary Art Field." *Arts, Humanities, and Complex Networks, NetSci 2011*. Budapest

2010. Varga A “The Fragmentation of Sociological Discourse.” *International Network for Social Network Analysis, XIX Sunbelt*, Riva Del Garda

2009. Varga A “Structural features of fields of sociological discourse in the light of citations networks.” *5th UK Social Networks Conference*. London

## **INVITED TALKS**

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2020 January 10th, *Long Term Trends of Boundary Spanning Research and the Allocation of Research Attention in the Sciences*, Centre for Economic and Regional Studies, Hungarian Academy of Sciences

2019 June 27th, *Structural Conditions of Novelty Seeking in the Sciences; Knowledge Growth and the Channels of Knowledge Integration*, Kellogg School of Management, Northwestern University

2011 October 13th *Social Media Platforms as Potential Sources for Stratification Research*, Centre for Social Sciences, Hungarian Academy of Sciences

## **GUEST LECTURES**

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2019 February 17<sup>th</sup> ITI 200: Social Informatics, Rutgers University

2018 January 30<sup>th</sup> ESOC 211: Collaborating in Online Communities, University of Arizona

## **TEACHING EXPERIENCE**

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### **Data Science**

2018 Fall (online), 2018 Summer (online), University of Arizona, School of Information

### **Introduction to Statistics**

2017 Fall, 2018 Spring, Instructor for lab Sessions, University of Arizona, Social and Behavioral Sciences

### **Introduction to Sociology**

2017 Spring (online), 2016 Spring (in person), University of Arizona, School of Sociology

### **Social Network Analysis**

2019 Spring (online), 2013 Summer (online) University of Arizona, School of Sociology  
2011 Spring, 2011 Fall, 2012 Spring (in person) Corvinus University of Budapest

## AWARDS

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School of Sociology, University of Arizona, Travel Award 2018  
Graduate and Professional Student Council, University of Arizona, Travel Award 2018  
School of Sociology, University of Arizona, Travel Award 2013  
Graduate and Professional Student Council, University of Arizona, Travel Award 2013  
Hungarian State Scholarship 2005-2006

## SKILLS

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Proficient in data processing and analysis (Python)  
Proficient in statistical analysis (R and Stata)  
Managing high performance computing jobs (PBS, SLURM)  
Languages: Hungarian (native), English (fluent), German (beginner)

## SERVICE

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Reviewer: *PLOS ONE*, *PNAS*, *Intersections*, *Scientometrics*, *Szociológiai Szemle*  
2016-2018. Recruitment Committee, University of Arizona, School of Sociology  
2006-2012: Secretary of Hungarian Network for Social Network Analysis, HUNNET

## REFERENCES

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### ***Yong-Yeol Ahn***

*Associate Professor*  
Indiana University  
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### ***Erin Leahey***

*Professor and Director*  
University of Arizona  
School of Sociology  
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### ***Staša Milojević***

*Associate Professor*  
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### ***Ronald Breiger***

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