

FARIBA KARIMI

GESIS - Leibniz Institute for social sciences

Department of Computational Social Sciences

Unter Sachsenhausen 6-8

50667 Cologne, Germany

Tel: +49 221 47694 239

E-mail: fariba.karimi@gesis.org

RESEARCH INTERESTS

Computational Social Science, Data Science, Complex systems, Network Theory and Dynamics, Algorithmic Biases and Inequality

CURRENT POSITION

Mar. 2015 - current Postdoctoral researcher, Department of Computational Social Sciences, GESIS
Dec. 2017 - Sep. 2018 Maternity leave

EDUCATION

Feb. 2011 - Feb. 2015 PhD in Physics with specialization in Computational Science, Umeå University
Thesis title: Tightly Knit: Spreading Processes in Empirical Temporal Networks,
supervisors: Petter Holme and Martin Rosvall
Aug. 2009 - Feb. 2011 M.Sc. in Physics, Lund University
May 2005 - May 2007 M.Sc. in Physics, Shahid Beheshti University

JOURNAL PUBLICATIONS

- F. Karimi**, Lee, E., C. Wagner, H.-H. Jo, M. Strohmaier, and M. Galesic (2019). Homophily explains perception biases in social networks. *Nature Human Behavior* (forthcoming).
- F. Karimi**, M. Génois, C. Wagner, P. Singer, and M. Strohmaier (2018). Homophily influences ranking of minorities in social networks. *Nature Scientific Reports*, [OA].
- F. Karimi**, P. Mayr, and F. Momeni (2018). Analyzing the network structure and gender differences among the members of the networked knowledge organization systems community. *International Journal of Digital Library*, [OA].
- Jadidi, M., **F. Karimi**, H. Lietz, and C. Wagner (2017). Gender disparities in science? dropout, productivity, collaborations and success of male and female computer scientists. *Advances in Complex Systems*, 1750011, [OA].
- Kunegis, J., **F. Karimi**, and S. Jun (2017). The problem of action at a distance in networks and the emergence of preferential attachment from triadic closure. *Journal of Interdisciplinary Methodologies and Issues in Science 2*, [OA].
- Samoilenko, A., **F. Karimi**, D. Edler, J. Kunegis, and M. Strohmaier (2016). Linguistic neighbourhoods: explaining cultural borders on wikipedia through multilingual co-editing activity. *EPJ Data Science 5*(9), [OA].
- F. Karimi** and M. Raddant (2016). Cascades in real interbank markets. *Computational Economics 47*(1), 49–66, [OA].

- F. Karimi**, L. Bohlin, A. Samoilenko, M. Rosvall, and A. Lancichinetti (2015). Mapping bilateral information interests using the activity of wikipedia editors. *Palgrave Communications*, [OA].
- Sircova, A., **F. Karimi**, E. N. Osin, S. Lee, P. Holme, and D. Strömbom (2015). Simulating irrational human behavior to prevent resource depletion. *PloS one* 10(3), e0117612, [OA].
- F. Karimi**, V. C. Ramenzoni, and P. Holme (2014). Structural differences between open and direct communication in an online community. *Physica A: Statistical Mechanics and its Applications* 414, 263–273, [OA].
- F. Karimi** and P. Holme (2013a). A temporal network version of watts cascade model. In *Temporal Networks*, pp. 315–329. Springer Berlin Heidelberg.
- F. Karimi** and P. Holme (2013b). Threshold model of cascades in empirical temporal networks. *Physica A: Statistical Mechanics and its Applications* 392(16), 3476–3483, [OA].

SUBMITTED PAPERS

- Kohne, J., Gallagher, N., Kirgil, Z.M., Paolillo, R., Padmos, L., and **F. Karimi**(2019). Clashing Norms - The Role of Network Structure in Conflicting Norms. *Computational Conflict Research (forthcoming)*.

CONFERENCE PUBLICATIONS

- Espín-Noboa, L., C. Wagner, **F. Karimi**, and K. Lerman (2018). Towards quantifying sampling bias in network inference. *WWW Conference*, [OA].
- Sun, J., S. Staab, and **F. Karimi** (2018). Decay of relevance in exponentially growing networks. *WebSci Conference*, [OA].
- Claudia Wagner, Olga Zagovora, Tatiana Sennikova, and **F. Karimi**(2018). Collective Attention towards Scientists and Research Topics. *WebSci Conference*, [OA].
- Wagner, C., P. Singer, **F. Karimi**, J. Pfeffer, and M. Strohmaier (2017). Sampling from social networks with attributes. In *Proceedings of the 26th International Conference on World Wide Web*, pp. 1181–1190. International World Wide Web Conference, [OA].
- F. Karimi**, C. Wagner, F. Lemmerich, M. Jadidi, and M. Strohmaier (2016). Inferring gender from names on the web: A comparative evaluation of gender detection methods. In *Proceedings of the 25th International Conference Companion on World Wide Web*, pp. 53–54. International World Wide Web Conference, [OA].
- Samoilenko, A., **F. Karimi**, J. Kunegis, D. Edler, and M. Strohmaier (2015). Linguistic influence patterns within the global network of wikipedia language editions. In *Proceedings of the ACM Web Science Conference*, pp. 54. ACM.

Total Google Scholar citations: 222, *h*-index = 9

SELECTED RESEARCH VISITS AND INTERNATIONAL COLLABORATIONS

May 2019	Department of Computer Science, University of Louvain (1 week)
October 2018	Graduate School of Business Administration, Keio University, Japan (1 month)
August 2017	Integrated Science Laboratory (IceLab), Umea Uni. (1 week)
May 2017	Institute of Theoretical Physics, Empirical Networks and Neurodynamic, TU Berlin
October 2016	Center for complex systems , University of Namur (3 days)

October 2013 Department of Energy Science, Sunkyunkwan University (3 weeks)
March 2013 Institute for mathematics and computer science, Danish University of Technology (3 weeks)
May 2012 Donders Institute for Cognition, Nijmegen (1 week)

TEACHING

Network theory and dynamic systems, 2016, 2017, University of Koblenz-Landau, Graduate course
Advanced Topics in Network Science, 2016, University of Koblenz-Landau, Graduate course
Computational Social Science, 2016, 2017, University of Koblenz-Landau, Guest lecturer

SUPERVISION

Doctoral Students

Mohsen Jadidi (with C. Wagner), Lisette Espin-Noboa (with C. Wagner), Ann Samoilenko (with M. Strohmaier)

Master Students

Hyunsik Kong, Analyzing the career path and citation patterns of men and women in physics, University Koblenz-Landau, 2019
Sousan Homaeipour, Exploring citation patterns of male and female scholars in Physics, University Koblenz-Landau, 2018
Tatiana Sennikova, Attention Dynamics of Scientists on the Web, University Koblenz-Landau, 2016

Student Projects

Sousan Homaeipour, Exploring collaboration patterns of male and female scholars in Physics, University Koblenz-Landau, 2019
Tara Morovatdar, Extracting and analyzing the artist graph on Spotify, University Koblenz-Landau, 2018

ACADEMIC SERVICE

Editor for the book 'Dynamics on and of Complex Networks' (forthcoming 2019)
Co-organizer of Satellite on Dynamics On and Of Networks at NetSci conference (2017)
Co-organizer of Satellite on Dynamics On and Of Networks at the Conference on Complex Systems (2016)
Evaluator for the Swiss National Science Foundation (2016)
Organizer of the workshop on the application of network theory on social sciences at GESIS (2015)

Program Committee

PC of the 11th ACM Conference on Web Science (2019)
PC of the International Conference on Web and Social Media, ICWSM (2016,2017)
PC of the European Symposium on Societal Challenges in Computational Social Science (2017)
PC of 9th International Conference on Complex Networks (2017)
PC of 9th international Conference on Social Informatics (2017)
PC of Workshop on Social Influence (2016,2017)
PC of the 3rd Computational Social Science Winter Symposium (2016)

Journal reviewer

Reviewer of the Nature Scientific Reports
Reviewer of PloSOne
Reviewer of Nature Palgrave Communication
Reviewer of the journal of Physica A

Reviewer of the journal of Social Network Analysis and Mining

GRANTS

European Training Network (ETN) “No Bias”, (2019) (4 Mio AC) the money will be used for 15 PhD scholarships, one PhD student will be co-supervised by me and Claudia Wagner starting from August 2020.

HONORS AND AWARDS

Short-listed for MacGillavry Fellowship for tenure-track position for talented female researchers (2019)

Best poster award at the NetSciX conference, Poland (2016)

Best poster award at the NetSci conference, Indianapolis (2017)

Best presentation award at the Korean Physical Society Conference (2017)

Master thesis (with C. Wagner) was nominated for the GOR thesis award (2016)

Wallenberg travel grant (2014)

Kempe travel grant (2014)

Palantir scholarship (2012)

INVITED TALKS, CONFERENCES, WORKSHOPS

May 2019 Department of Computer Science, University of Louvain (invited talk)
May 2019 DataBeers Brussels (invited talk)
December 2018 Complex Networks Conference, Uni. of Cambridge (lightening talk)
July 2018 BIGSSS Summer School on Computational Social Science, Jacobs Uni. (invited expert)
June 2018 NetSci Conference, Paris. (invited talk and contributed talk)
August 2017 Integrated Science Laboratory (IceLab), Umea Uni. (invited talk)
July 2017 Interdisciplinary Workshop on Opinion Dynamics and Collective Decision , Jacobs Uni.(talk)
May 2017 Institute of Theoretical Physics, Empirical Networks and Neurodynamic, TU Berlin (invited talk)
June 2017 International Conference of Computational Social Science (IC2S2), Cologne (talk and poster)
March 2017 Max Planck Institute for Evolutionary Biology, Plon (invited talk)
October 2016 University of Namur, Namur (invited talk)
November 2016 3rd GESIS Computational Social Science Winter Symposium, Cologne (poster)
September 2016 Complex System Conference, Amsterdam (talk)
July 2016 Statistical Physics of Financial and Economic Networks, Lyon (talk)
March 2016 DPG meeting- Physics of socio-economic systems, Regensburg (talk)
February 2016 Networking workshop in Computational Social Sciences, Cologne
June 2015 International Conference of Computational Social Science (IC2S2), Helsinki (talk)
March 2014 European Social Simulation Association workshop, Ruhr University, Bochum (talk)
April 2013 Information and predictability in social interactions workshop, Arhus (talk)
September 2014 European conference on complex systems, Lucca (talk and poster)
June 2014 Network Science Conference (NetSci), Berkeley (poster)
April 2014 North Atlantic network summit, Reykjavik (talk)
October 2013 KAIST University, Daejeon, South Korea (invited talk)
September 2013 European conference on complex systems, Barcelona (talk)
May 2013 Network approaches for interbank markets, Castellon (talk)
April 2013 Interactive Minds Center, Aarhus (talk)
November 2012 Institute for mathematic and computer science, DTU, Lyngby (talk)
October 2012 ISI foundation , Turin (invited talk)
June 2012 NetSci, The International School and Conference on Network Science
Evanston, IL (poster)
November 2011 Nordic Network for Network Science kick off, Stocllholm (talk)
June 2011 NetSci, The International School and Conference on Network Science, Budapest (poster)
March 2011 workshop on applications on network theory, Stockholm (talk)