

Termeh Shafie

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Education and Qualifications

Doctor of Philosophy in Statistics <i>Stockholm University</i>	Jan 2013 <i>Stockholm, Sweden</i>
Licentiate of Philosophy in Statistics <i>Umeå University</i>	Feb 2008 <i>Umeå, Sweden</i>
Master of Social Science with a major in Statistics <i>Umeå University</i>	Feb 2006 <i>Umeå, Sweden</i>
Master of Science in Public Administration and Economics <i>Umeå University</i>	Feb 2006 <i>Umeå, Sweden</i>
Bachelor of Social Science <i>Umeå University</i>	Jan 2004 <i>Umeå, Sweden</i>
Bachelor of Science in Public Administration and Economics <i>Umeå University</i>	Jan 2004 <i>Umeå, Sweden</i>

Experience

Professor of Computational Social Science & Data Science (W2) <i>Department of Politics and Public Administration, University of Konstanz</i>	Since July 2023 <i>Konstanz, Germany</i>
Interim Professor <i>Department of Politics and Public Administration, University of Konstanz</i>	Apr 2023 – July 2023 <i>Konstanz, Germany</i>
Senior Researcher <i>Department of Computational Social Science GESIS – Leibniz Institute for the Social Sciences</i>	Jul 2022 – May 2023 <i>Cologne, Germany</i>
Lecturer in Social Statistics <i>Department of Social Statistics, University of Manchester</i>	Jul 2018 – Mar 2022 <i>Manchester, UK</i>
Postdoctoral Researcher <i>Department of Humanities, Social and Political Sciences, ETH Zürich</i>	Nov 2017 – Jun 2018 <i>Zürich, Switzerland</i>
Postdoctoral Researcher <i>Department of Computer & Information Science, University of Konstanz</i>	Sep 2013 – Oct 2017 <i>Konstanz, Germany</i>
Deputy Lecturer <i>Department of Statistics, Stockholm University</i>	Jan 2013 – Aug 2013 <i>Stockholm, Sweden</i>
Adjunct instructor <i>Department of Statistics, Stockholm University</i>	Mar 2008 – Jan 2013 <i>Stockholm, Sweden</i>
Teaching Assistant (20%) <i>Department of Statistics, Umeå University, Sweden</i>	Feb 2006 – Feb 2008 <i>Umeå, Sweden</i>

Visiting Scholar

Visiting Researcher/Bass Fellow
The Field Museum of Natural History

May 2015 – Sep 2015
Chicago, USA

Visiting Research Scholar
Department of Statistics, University of California Berkeley

Jan 2006 – Jun 2006
Berkeley, USA

Publications

Peer Reviewed Journal Articles

- Schoch, D., & **Shafie, T.** (2024). The interplay of structural features and observed dissimilarities among centrality indices. *Social Networks*, 78, 54–64.
- **Shafie, T.** (2022). Goodness of fit tests for random multigraphs. *Journal of Applied Statistics* 1–26.
- **Shafie, T.** & Schoch, D. (2021) Multiplexity Analysis of Networks using Multigraph Representations. *Statistical Methods & Applications* 30(5): 1425-1444.
- Knaf, A. C. S., **Shafie, T.**, Koornneef, J.M., Hertwig, A., Cardenas-Parraga, J., Garcia-Casco, A., Harlow, G.E., Schertl, H.P., Maresch, W.V., Belando, A.L., Hofman, C.L., Brandes, U., Davies, G.R. (2021). Trace-elemental and multi-isotopic (Sr-Nd-Pb) discrimination of jade in the circum-Caribbean: Implications for pre-colonial inter-island exchange networks. *Journal of Archaeological Science*, 135, 105466.
- Amati, V., Mol, A., **Shafie, T.**, Hofman, C., & Brandes, U. (2019). A Framework for Reconstructing Archaeological Networks Using Exponential Random Graph Models. *Journal of Archaeological Method and Theory*, 1–28.
- Frank, O., & **Shafie, T.** (2018). Random multigraphs and aggregated triads with fixed degrees. *Network Science*, 6(2), 232–250.
- Amati, V., **Shafie, T.**, & Brandes, U. (2018). Reconstructing archaeological networks with structural holes. *Journal of Archaeological Method and Theory*, 25(1), 226–253.
- **Shafie, T.**, Schoch, D., Mans, J., Hofman, C., & Brandes, U. (2017). Hypergraph Representations: A Study of Carib Attacks on Colonial Forces, 1509-1700. *Journal of Historical Network Research*, 1(1), 52-70.
- Laffoon, J. E., Sonnemann, T. F., **Shafie, T.**, Hofman, C. L., Brandes, U., & Davies, G. R. (2017). Investigating human geographic origins using dual-isotope ($^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{18}\text{O}$) assignment approaches. *PLoS one*, 12(2), e0172562.
- **Shafie, T.** (2016). Analyzing local and global properties of multigraphs. *The Journal of Mathematical Sociology*, 40(4), 239–264.
- Torra, V., **Shafie, T.**, & Salas, J. (2016). Data protection for online social networks and P -stability for graphs. *IEEE Transactions on Emerging Topics in Computing*, (3), 374–381.
- Hart, J. P., **Shafie, T.**, Birch, J., Dermarkar, S., & Williamson, R. F. (2016). Nation building and social signaling in southern Ontario: AD 1350–1650. *PLoS One*, 11(5), e0156178.
- Dermarkar, S., Birch, J., **Shafie, T.**, Hart, J. P., & Williamson, R. F. (2016). St. Lawrence Iroquoians and pan-Iroquoian social network analysis. *Ontario Archaeology*, 96, 87–103.
- Frank, O., & **Shafie, T.** (2016). Multivariate entropy analysis of network data. *Bulletin of Sociological Methodology/Bulletin de Méthodologie Sociologique*, 129(1), 45–63.

- **Shafie, T.** (2015). A Multigraph Approach to Social Network Analysis. *Journal of Social Structure*, 16.

Books and Book Chapters

- **Shafie, T.** (2020). Social Network Analysis. In P. Atkinson, S. Delamont, A. Cernat, J.W. Sakshaug, & R.A. Williams (Eds.), *SAGE Research Methods Foundations*.

Conference Proceedings

- **Shafie, T., & Frank, O.** (2012). Complexity of Families of Multigraphs. In *2012 JSM Proceedings*, Section on Statistical Graphics, Alexandria, VA: American Statistical Association, pp 2908–2921.

R packages

- `multigraphr` published on CRAN: <https://CRAN.R-project.org/package=multigraphr>.
- `netropy` published on CRAN: <https://CRAN.R-project.org/package=netropy> .