

Aliakbar AKBARITABAR

Assistant Professor of Computational Social Science

University of Rostock – Max Planck Institute for Demographic Research, Rostock, Germany

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Research Interests

A Computational Social Scientist with a Sociology background.

Computational Social Science Social Network Analysis, Scientific Networks, Social Simulation, Text Analysis
Sociology and Demography Sociology of Science, Bibliometrics, Cyber Social Capital, High-Skill and Scholarly Migration

Education

Ph.D. of Economic Sociology

University of Milan

Milan, Italy

Awarded: Apr. 2019

- Thesis: A quantitative sociology of academic work in an era of hypercompetition and rankings (1, 2), Supervisor: Flaminio Squazzoni

Ph.D. of Sociology and Social Welfare

Allameh Tabataba'i University

Tehran, Iran

Awarded: Jun. 2017

- Thesis: Iranian's Cyber Social Capital: Background Factors and Outcome (1), Supervisor: Jafar Hezarjaribi

M.A. of Sociology

Tarbiat Modares University

Tehran, Iran

Awarded: Jun. 2011

- Thesis: A Social Network Analysis Study on Online Social Networks: Case study of Doreh and U24, Supervisor: Ali Saei

B.A. of Sociology, Social Research

Shiraz University

Shiraz, Iran

Awarded: Jun. 2008

- Thesis: Factors related with students commitment to university, Supervisor: Abdolali Lahsaeizadeh

Academic Positions

University of Rostock – Max Planck Institute for Demographic Research

Assistant Professor (Junior-Professor) of Computational Social Science ([link](#))

Rostock, Germany

Oct. 2025 -

Max Planck Institute for Demographic Research

Faculty Member - International Max Planck Research School for Population, Health and Data Science (IMPRS-PHDS)

Rostock, Germany

Jan. 2021 - present

Open Science Ambassador with Max Planck Society's MPDL ([link](#))

Sep. 2025 - present

Deputy Head for Training - Department of Digital and Computational Demography (DiCoDe)

Sep. 2022 - Dec. 2024

Deputy Head - Laboratory of Migration and Mobility - DiCoDe

Nov. 2021 - Aug. 2022

Executive Committee Member - DiCoDe

Nov. 2021 - Dec. 2024

Seminar Series Chair - DiCoDe, Organized and chaired 18 weekly seminars, 14 with external invited speakers

Feb. 2022 - Aug. 2022

Responsible for local friend system - DiCoDe, supporting newcomers' settlement

Jan. 2022 - Jun. 2023

Research Scientist ([link](#))

Jan. 2021 - Sep. 2025

University of Rostock

Adjunct Lecturer (Lehrbeauftragte) ([link](#))

Rostock, Germany

Apr. 2025 - Sep. 2025

Robert K. Merton Center for Science Studies, Humboldt-Universität zu Berlin

Affiliated Researcher ([link](#))

Berlin, Germany

Jan. 2024 - present

German Centre for Higher Education Research and Science Studies (DZHW)

Postdoctoral Researcher

Berlin, Germany

Sep. 2018 - Jan. 2021

University of Brescia

Researcher - Research Group on Experimental and Computational Sociology ([link](#))

Brescia, Italy

Sep. 2016 - Aug. 2018

Yazd University

Adjunct Professor

Yazd, Iran

Sep. 2013 - Jun. 2014

University of Applied Science and Technology

Adjunct Professor

Tehran, Iran

Sep. 2012 - Jun. 2013

Research Stays

University College Dublin

Visiting Researcher - Geary Institute

Dublin, Ireland

Apr. 2018 - Jun. 2018

Leiden University

Visiting Researcher - Centre for Science and Technology Studies (CWTS)

Leiden, the Netherlands

Feb. 2018 - Apr. 2018

École Nationale Supérieure des Télécommunications de Bretagne, IMT Atlantique

Visiting Researcher

Brest, France

Feb. 2015 - Aug. 2015

Autonomous University of Barcelona

Visiting Researcher

Barcelona, Spain

Jul. 2015

Third-Party Grants, and Placements

2024	Assistant Professorship in Sociology , University of Copenhagen Outcome: committee's written assessment indicated as qualified for the position; not selected	<i>Copenhagen, Denmark</i>
2023	Assistant Professorship in Computational Social Science , University of Koblenz Outcome: 3rd place on the final hiring list i.e., evaluated as qualified for the position PI , ERC Starting Grant; Migration of scholars worldwide	<i>Koblenz, Germany</i>
2022	Outcome: Grade A, i.e., Fully meets the ERC's excellence criterion and is recommended for funding if sufficient funds are available	<i>European Research Council (ERC)</i>
2015	PhD Scholarship (40,916€) , University of Milan, Funded by University of Brescia	<i>Milan, Italy</i>
2015	Research Stay Scholarship (6,570€) , Ministry of Science, Research and Technology	<i>Tehran, Iran</i>
2015	Tuition Waiver (490€) , Summer course on Personal Network Analysis at Autonomous University of Barcelona	<i>Barcelona, Spain</i>
2015	Tuition Discount (500€, declined) , Summer course on Big Data and Society at University of Amsterdam	<i>Amsterdam, the Netherlands</i>

Academic Supervision

2024 -	Co-supervisor , PhD student, Thiago Zordan Malaguth, MPIDR and University of Rostock, Germany	<i>University of Rostock, MPIDR</i>
2024 -	Co-organizer and Mentor , The Population and Social Data Science Summer Incubator Program (co-supervising with D. Perrotta and J. Kim), weekly mentorship meeting of 4 PhD students; Project: Gender and network dynamics in mobility and Migration (link)	<i>MPIDR</i>
2024	Course Coordinator , International Max Planck Research School for Population, Health and Data Science (IMPRS-PHDS) course on Topics in Digital and Computational Demography (link)	<i>MPIDR</i>
2024	Co-organizer and Facilitator , 11 soft skills seminars for PhD students, 1-hour seminars with invited speakers	<i>MPIDR</i>
2024-2025	Advisor , Visiting PhD student, Huaxia Zhou, PhD student of Physics at the Northwestern University, United States	<i>MPIDR</i>
2024	Advisor , Visiting PhD student, Aasli Abdi Nur, PhD student of Sociology at the University of Washington, United States	<i>MPIDR</i>
2023 -	Co-organizer and Mentor , The Population and Social Data Science Summer Incubator Program (co-supervising with U. Basellini and E. Zagheni), weekly mentorship meeting of 6 PhD students and organizing 15 tutorials; Project: Gender inequality in the scientific workforce worldwide (link)	<i>MPIDR</i>
2023	Co-organizer and Facilitator , 12 soft skills seminars for PhD students, 1-hour seminars with invited speakers, 1 as the speaker on Biases in Science (slides)	<i>MPIDR</i>
2023	Course Coordinator , International Max Planck Research School for Population, Health and Data Science (IMPRS-PHDS) course on Topics in Digital and Computational Demography (link)	<i>MPIDR</i>

2023-2024	EDSD mentor, Thiago Zordan Malaguth, European Doctoral School of Demography (EDSD)	MPIDR
2023-2024	Supervisor, Visiting Student, Faeze Ghorbanpour, Computer Science at the Sharif University of Technology; ICWSM Paper: Differentiating Emigration from Return Migration of Scholars Using Name-Based Nationality Detection Models (https://doi.org/10.1609/icwsml.v19i1.35836)	MPIDR
2022-2024	Training Advisor, 10 PhD students, as the Deputy Head for Training, monthly progressive meetings to provide feedback on their progress in addition to providing yearly feedback to students and their postdoc mentors	MPIDR
2021-2022	Advisor, Visiting PhD student, Maria Vignau Loria, PhD student of Sociology at the University of Washington, United States; Working paper (https://doi.org/10.4054/MPIDR-WP-2023-027)	MPIDR
2021-2024	Advisor, PhD student, Xinyi Zhao, PhD student of Sociology at MPIDR and University of Oxford, the UK; Published paper (https://doi.org/10.1073/pnas.2214664120)	MPIDR
2021-2022	Supervisor, Master Student (as a research assistant)	MPIDR
2019-2021	Supervisor, 2 Master Students (as research assistants)	DZHW, Berlin

Teaching Experience

2025-2026	Computational Approaches to Migration Research, Master level course, 14 weeks, at the University of Rostock (link)	Rostock
2025	Introduction to Computational Social Science, Master level course, 13 weeks, at the University of Rostock as Adjunct Lecturer (Lehrbeauftragte, link)	Rostock
2025	Tutorial on Using version control, Git and GitHub for Open Science, Second MPIDR Open Science workshop (materials)	Rostock
2024	Migration and Society - Week 7: Migration Networks, Master level course at the University of Rostock and MPIDR	Rostock
2024	Network tie formation mechanisms, Population and Social Data Science Summer Incubator Program (materials)	Rostock - Virtual
2024	Using digital trace data to study the migration of scholars, IMPRS-PHDS, IDEM187, MPIDR, hybrid 100+ students (outline)	Rostock - Virtual
2023	Using digital trace data to study the migration of scholars, IMPRS-PHDS, IDEM187, MPIDR, hybrid 100+ students (outline)	Rostock - Virtual
2022	Using digital trace data to study the migration of scholars, IMPRS-PHDS, IDEM187, MPIDR, hybrid 100+ students (materials)	Rostock - Virtual
2022	Parallelized analysis of bibliometric and text data using Python and SQL, University of Toronto (materials)	Virtual
2022	Using bibliometric data in demographic research, European Population Conference, with Xinyi Zhao (materials)	Groningen - Virtual
2022	Introduction to text analysis and bibliometric data, Population and Social Data Science Summer Incubator Program (materials)	Rostock - Virtual
2022	Parallelized analysis of bibliometric and text data using Python and SQL, University of Michigan (materials)	Virtual
2019	Introduction to network analysis, Humboldt-Universität zu Berlin (materials)	Berlin, Germany
2013-2014	Adjunct Professor, Yazd University, courses taught: - Basic Sociology (2 semesters) - Sociology of Third World countries - Sociology of Delinquent Behaviour - Sociology of Social Stratification and Inequalities (2 semesters)	Yazd, Iran
2012-2013	Adjunct Professor, University of Applied Science and Technology, courses taught: - Basic Sociology - Basics of Iranian Social History	Tehran, Iran

Organization of Scientific Events

2024	Symposium Co-organizer, Migration and Mobility Symposium at MPIDR and online (link)	Rostock, Germany
2023	Workshop (Member Initiated Meeting) Organizer, with 8 invited speakers at 88th Annual Meeting of the Population Association of America on inauguration of the Scholarly Migration Database (link)	New Orleans, USA
2023	Suessmilch Lecture Host and Organizer, Invited and hosted Cassidy R. Sugimoto for her lecture on “Equity for Women in Science” (link)	Rostock, Germany
2022	Workshop Organizer, with 6 invited speakers at European Population Conference on using bibliometric data for demographic research (link)	Groningen, the Netherlands
2020	Conference Session Organizer, with Vacca, Raffaele; McCarty, Christopher; Squazzoni, Flaminio on Network Analysis for the Science of Science, 40th INSNA Sunbelt conference	Virtual
2020	Co-organizer of the second satRday conference in Berlin, A conference for R users, cancelled due to covid-19 (link)	Berlin, Germany
2019	Co-organizer of the first satRday conference in Berlin, A conference for R users (link)	Berlin, Germany

Reviewing Activities

“***” indicates multiple reviews.

Journals	Nature, Demography**, American Sociological Review, Quantitative Science Studies**, Social Networks, Journal of Informetrics**, Nature - Humanities and Social Sciences Communications**, Scientometrics**, Journal of Open Source Software**, Global Networks, Applied Network Science, Science and Public Policy**, European Journal of Education, PLOS ONE**, EPJ Data Science, Migration Studies, JASSS, Science Advances
Verified Reviews	Web of Science reviewer profile (https://www.webofscience.com/wos/author/record/66657430)
Grants	Swiss National Science Foundation (SNSF)
Conferences	IC2S2 2025, IPC-IUSSP 2025, IC2S2 2024, PAA 2024, STI 2024, STI 2022, ISSI 2021, Sunbelt 2020, ISSI & STI 2019, STI 2018
Award Committee	IMPRS-PHDS Annual Academy poster award, 2021 INSNA-Sunbelt Richard’s Software Award
Topic Co-Editor	Frontiers in Research Metrics and Analytics
Panel Member	2021 INSNA Diversity, Equity and Inclusion Panel

Research Output and Publications

Note: Publications led by PhD students are marked with “***”

Peer-reviewed journal articles

24. **Akbaritabar, A.**, Daňko, M. J., Zhao, X., Zagheni, E., Global Subnational Estimates of Migration of Scientists Reveal Large Disparities in Internal and International Flows. *Proceedings of the National Academy of Sciences* **122**, e2424521122. doi:10.1073/pnas.2424521122 (2025).
23. Torres, A. F. C., **Akbaritabar, A.**, The Hegemonic Use of Linear Models in Quantitative Social Sciences. *Bulletin of Sociological Methodology/Bulletin de Méthodologie Sociologique*, 1–18. doi:10.1177/07591063251349381 (2025).
22. **Akbaritabar, A.** Thinking Spatially in Computational Social Science. *EPJ Data Science* **13**, 1–12. doi:10.1140/epjds/s13688-023-00443-0 (2024).
21. **Akbaritabar, A.**, Castro Torres, A. F., Larivière, V., A Global Perspective on Social Stratification in Science. *Humanities and Social Sciences Communications* **11**, 1–10. doi:10.1057/s41599-024-03402-w (2024).
20. **Akbaritabar, A.**, Rubin, B. P., The Evolution of Plasticity in the Neuroscientific Literature during the Second Half of the Twentieth Century to the Presence. *Journal of the History of the Neurosciences*. doi:10.1080/0964704X.2024.2371783 (2024).
19. **Akbaritabar, A.**, Theile, T., Zagheni, E., Bilateral Flows and Rates of International Migration of Scholars for 210 Countries for the Period 1998-2020. *Scientific Data* **11**, 816. doi:10.1038/s41597-024-03655-9 (2024).
18. Castro Torres, A. F., **Akbaritabar, A.**, The Use of Linear Models in Quantitative Research. *Quantitative Science Studies*, 1–32. doi:10.1162/qss_a_00294 (2024).
17. ** Zhao, X., **Akbaritabar, A.**, Kashyap, R., Zagheni, E., A Gender Perspective on the Global Migration of Scholars. *Proceedings of the National Academy of Sciences* **120**, e2214664120. doi:10.1073/pnas.2214664120 (2023).

16. Sanliturk, E., Zagheni, E., Daňko, M. J., Theile, T., **Akbaritabar, A.**, Global Patterns of Migration of Scholars with Economic Development. *Proceedings of the National Academy of Sciences* **120**. (Equal contribution of all authors), e2217937120. doi:10.1073/pnas.2217937120 (2023).
15. **Akbaritabar, A.**, Stephen, D., Squazzoni, F., A Study of Referencing Changes in Preprint-Publication Pairs across Multiple Fields. *Journal of Informetrics* **16**, 101258. doi:10.1016/j.joi.2022.101258 (2022).
14. Piolatto, M., Bianchi, F., Rota, M., Marengoni, A., **Akbaritabar, A.**, Squazzoni, F., The Effect of Social Relationships on Cognitive Decline in Older Adults: An Updated Systematic Review and Meta-Analysis of Longitudinal Cohort Studies. *BMC Public Health* **22**, 278. doi:10.1186/s12889-022-12567-5 (2022).
13. **Akbaritabar, A.** A Quantitative View of the Structure of Institutional Scientific Collaborations Using the Example of Berlin. *Quantitative Science Studies* **2**, 753–777. doi:10.1162/qss_a_00131 (2021).
12. **Akbaritabar, A.**, Barbato, G., An Internationalised Europe and Regionally Focused Americas: A Network Analysis of Higher Education Studies. *European Journal of Education* **56**, 219–234. doi:10.1111/ejed.12446 (2021).
11. **Akbaritabar, A.**, Bravo, G., Squazzoni, F., The Impact of a National Research Assessment on the Publications of Sociologists in Italy. *Science and Public Policy*. doi:10.1093/scipol/scab013 (2021).
10. Gao, D., **Akbaritabar, A.**, Using Agent-Based Modeling in Routine Dynamics Research: A Quantitative and Content Analysis of Literature. *Review of Managerial Science*. doi:10.1007/s11846-021-00446-z (2021).
9. **Akbaritabar, A.**, Squazzoni, F., Gender Patterns of Publication in Top Sociological Journals. *Science, Technology, & Human Values*. doi:10.1177/0162243920941588 (2020).
8. **Akbaritabar, A.**, Traag, V. A., Caimo, A., Squazzoni, F., Italian Sociologists: A Community of Disconnected Groups. *Scientometrics*. doi:10.1007/s11192-020-03555-w (2020).
7. **Akbaritabar, A.**, Casnici, N., Squazzoni, F., The Conundrum of Research Productivity: A Study on Sociologists in Italy. *Scientometrics* **114**, 859–882. doi:10.1007/s11192-017-2606-5 (2018).
6. **Akbaritabar, A.**, Hezarjaribi, J., A comparative study on Cyber Social Capital in Persian, English and French speaking users of Facebook and Google plus. *Quarterly Journal of Socio - Cultural Development Studies* **5**, 175–204. <http://journals.sabz.ac.ir/scds/article-1-314-en.html> (2016).
5. Morteza, N., Hamidreza, M., **Akbaritabar, A.**, Omid, K. H., Amid, R., Psychometric Properties of the Persian Translation of Pittsburgh Sleep Quality Index. *Health Scope* **3**. doi:10.17795/jhealthscope-15547 (2014).
4. Nazifi, M., Mokarami, H. R., **Akbaritabar, A.**, FarajiKujerdi, M., Tabrizi, R., Rahi, A., Reliability, Validity and Factor Structure of the Persian Translation of General Health Questionnaire (GHQ-28) in Hospitals of Kerman University of Medical Sciences. *Journal of Fasa University of Medical Sciences* **3**, 336–342. <http://jabs.fums.ac.ir/article-1-528-en.html> (2014).
3. **Akbaritabar, A.**, Mokarami, H., Nazifi, M., Rahi, A., Mirkamandar, E., Hosseinpouri, M., Psychometric properties of Spector's job satisfaction survey in the Iranian population. *Koomesh* **14**. <http://koomeshjournal.semums.ac.ir/article-1-1787-en.html> (2013).
2. Eskandaripour, E., **Akbaritabar, A.**, Scientific Study of Radio & TV Webpages in Social Websites. *Quarterly Journal of Communication Research* **20**, 113. doi:10.22082/cr.2013.23567 (2013).
1. Shaverdi, M., Heshmati, M. R., Eskandaripour, E., **Akbaritabar, A.**, Developing Sustainable SCM Evaluation Model Using Fuzzy AHP in Publishing Industry. *Procedia computer science* **17**, 340–349. doi:10.1016/j.procs.2013.05.044 (2013).

Peer-reviewed conference proceedings

4. ** Ghorbanpour, F., Malaguth, T. Z., **Akbaritabar, A.**, Differentiating Emigration from Return Migration of Scholars Using Name-Based Nationality Detection Models. *Proceedings of the International AAAI Conference on Web and Social Media* **19**, 636–652. doi:10.1609/icwsm.v19i1.35836 (2025).
3. **Akbaritabar, A.**, Haunschild, R., Bornmann, L., *Higher mobility among researchers identified as potentially talented academics compared to a control group in Proceedings of The 28th International Conference on Science, Technology and Innovation Indicators* (Berlin, Germany, 2024). doi:10.5281/zenodo.13940222.
2. **Akbaritabar, A.** *Scientific Collaboration Networks in the Interdisciplinary Field of Biodiversity in Central Germany in Proceedings of International Society of Scientometrics and Informetrics Conference* (Bloomington, Indiana, 2023). doi:10.5281/zenodo.8253500.
1. **Akbaritabar, A.**, Stahlschmidt, S., *Merits and Limits: Applying open data to monitor open access publications in bibliometric databases in Proceedings of the 17th International Conference on Scientometrics and Informetrics, ISSI 2019, Rome, Italy, September 2-5, 2019* (eds Catalano, G., Daraio, C., Gregori, M., Moed, H. F. & Ruocco, G.) (ISSI Society, 2019), 1455–1461. <https://www.issi-society.org/publications/issi-conference-proceedings/proceedings-of-issi-2019/>.

Book chapters

2. **Akbaritabar, A.**, Carrasco Armijo, J. I., Anastasiadou, A., *Gender Dynamics in International Migration and Social Networks* tech. rep. WP-2025-004 (Max Planck Institute for Demographic Research, Rostock, Feb. 2025). doi:10.4054/MPIDR-WP-2025-004. (2025).
1. Kashyap, R., Rinderknecht, R. G., **Akbaritabar, A.**, Albrez-Gutierrez, D., Gil-Clavel, S., Grow, A., Kim, J., Leasure, D. R., Lohmann, S., Negraia, D. V., Perrotta, D., Rampazzo, F., Tsai, C.-J., Verhagen, M. D., Zagheni, E., Zhao, X., in *Research Handbook on Digital Sociology* 48–86 (Edward Elgar Publishing, 2023). doi:10.4337/9781789906769.00010.

Datasets, software, and replication materials

17. ** Ghorbanpour, F., Malaguth, T., **Akbaritabar, A.**, *Data for the training section of "Differentiating Emigration from Return Migration of Scholars Using Name-Based Nationality Detection Models"* paper Mar. 2025. doi:[10.5281/zenodo.15103505](https://doi.org/10.5281/zenodo.15103505). (2025).
16. **Akbaritabar, A.**, Daňko, M. J., *Scripts, Data, and Replication Materials for "Global Subnational Estimates of Migration of Scientists Reveal Large Disparities in Internal and International Flows"* Zenodo. Mar. 2025. doi:[10.5281/zenodo.15047102](https://doi.org/10.5281/zenodo.15047102). (2025).
15. **Akbaritabar, A.** *Materials for Course on Network Tie Formation Mechanisms* Zenodo. 2024. doi:[10.5281/zenodo.12737590](https://doi.org/10.5281/zenodo.12737590). (2024).
14. **Akbaritabar, A.** *Replication Data and Scripts for "Gender and Regional Differences in Scientific Mobility among Academics Identified as Potentially Talented and a Control Group"* 2024. doi:[10.17617/3.PQZPDP](https://doi.org/10.17617/3.PQZPDP). (2024).
13. **Akbaritabar, A.**, Castro Torres, A. F., *Replication Data for: A Global Perspective on Social Stratification in Science* Zenodo. June 2024. doi:[10.5281/zenodo.12527944](https://doi.org/10.5281/zenodo.12527944). (2024).
12. Theile, T., **Akbaritabar, A.**, Zagheni, E., *Replication Data for: Bilateral Flows and Rates of International Migration of Scholars for 210 Countries and Areas for the Period 1998-2020* May 2024. doi:[10.5281/zenodo.11145735](https://doi.org/10.5281/zenodo.11145735). (2024).
11. **Akbaritabar, A.**, Theile, T., Zagheni, E., *Scholarly Migration Database* 2023. <https://scholarlymigration.org/>.
10. **Akbaritabar, A.** *Materials for Course on BiblioDemography in IMPRS-PHDS 2022: Using Large-Scale Bibliometric Data for Demographic Research* Zenodo. 2022. doi:[10.5281/zenodo.12737586](https://doi.org/10.5281/zenodo.12737586). (2024).
9. **Akbaritabar, A.** *Parallelised Analysis of Large-Scale Bibliometric and Text Data (with Dask in Python, DuckDB and DBeaver in SQL)* Zenodo. 2022. doi:[10.5281/zenodo.12737596](https://doi.org/10.5281/zenodo.12737596). (2024).
8. **Akbaritabar, A.** *Parallelised and out of Memory Data Analysis Using Dask in Python and DuckDB and DBeaver in SQL* Zenodo. 2022. doi:[10.5281/zenodo.12737606](https://doi.org/10.5281/zenodo.12737606). (2024).
7. **Akbaritabar, A.** *Scientific Collaborations in Berlin and Halle-Jena-Leipzig Regions Presentation* Zenodo. 2022. doi:[10.5281/zenodo.12737580](https://doi.org/10.5281/zenodo.12737580). (2024).
6. **Akbaritabar, A.** *Xaringan Presentation Format with MPIDR Template* Zenodo. 2022. doi:[10.5281/zenodo.12737564](https://doi.org/10.5281/zenodo.12737564). (2024).
5. **Akbaritabar, A.**, Zhao, X., *Materials for Workshop on "Using Bibliometric Data in Demographic Research"* Zenodo. 2022. doi:[10.5281/zenodo.12737600](https://doi.org/10.5281/zenodo.12737600). (2024).
4. **Akbaritabar, A.** *Scripts Needed to Replicate Methodology Used in "A Quantitative View of the Structure of Institutional Scientific Collaborations Using the Example of Berlin" Published in Quantitative Science Studies*. Zenodo. Apr. 2021. doi:[10.5281/zenodo.4657326](https://doi.org/10.5281/zenodo.4657326). (2024).
3. **Akbaritabar, A.** *Google Scholar R Shiny Application* Zenodo. 2020. doi:[10.5281/zenodo.12737546](https://doi.org/10.5281/zenodo.12737546). (2024).
2. **Akbaritabar, A.** *Kalick and Hamilton, 1986, Agent Based Model Replicated Using Mesa in Python* Zenodo. 2020. doi:[10.5281/zenodo.12737542](https://doi.org/10.5281/zenodo.12737542). (2024).
1. **Akbaritabar, A.** *Replication Materials for "The Impact of a National Research Assessment on the Publications of Sociologists in Italy" to Appear in Science and Public Policy* Zenodo. Aug. 2020. doi:[10.5281/zenodo.3974108](https://doi.org/10.5281/zenodo.3974108). (2024).

Preprints and working papers

10. ** Rottenkolber, A., Ali, O., Mónus, G., Li, J., Kim, J., Perrotta, D., **Akbaritabar, A.**, *It's Who You Know — Unless You're Famous: Professional Networks and Prestige in Scholarly Mobility* tech. rep. WP-2025-02 (Max Planck Institute for Demographic Research, Rostock, 2025).
9. ** Walk, E., **Akbaritabar, A.**, *Resolving the Paradox between Migration and Collaboration of Scholars Worldwide* Aug. 2024. doi:[10.31235/osf.io/g2u6v](https://doi.org/10.31235/osf.io/g2u6v). (2024).
8. ** Abdi Nur, A., **Akbaritabar, A.**, Vignau Loria, M., Coolman, N., Fan, X., Curran, S., *Bibliometric Analysis of Published Literature on the Determinants of Family Planning* tech. rep. WP-2023-027 (Max Planck Institute for Demographic Research, Rostock, 2023), WP-2023-027. doi:[10.4054/MPIDR-WP-2023-027](https://doi.org/10.4054/MPIDR-WP-2023-027).
7. ** Kim, J., Vishnoi, S., Carrasco, I., Cortés, J., Liang, Y., Lauber, M., **Akbaritabar, A.**, Basellini, U., Zagheni, E., *Global Gender Gap in the Scientific Workforce: Analyzing and Forecasting Bibliometric Data* 2023.
6. ** Zhao, X., **Akbaritabar, A.**, Kashyap, R., Zagheni, E., *Gender Differences in Online Visibility of Early-Career Researchers: Are Men More Likely to Gain Mentions on Twitter and Benefit More* 2023.
5. **Akbaritabar, A.**, Stephen, D., *A Case-Control Study of Differences in the Review Process between Peer Review and Other Research Manuscripts: Study Protocol* SSRN Scholarly Paper. Rochester, NY, Sept. 2023. <https://ssrn.com/abstract=4569653> (2024).
4. Gao, D., **Akbaritabar, A.**, *Motivations Behind Scholarly Collaboration and Migration: An Agent-Based Model* 2023.
3. **Akbaritabar, A.** *Dichotomy of Offline Versus Online Social Capital* SSRN Scholarly Paper. Rochester, NY, 2022. doi:[10.2139/ssrn.4311832](https://doi.org/10.2139/ssrn.4311832).
2. **Akbaritabar, A.**, Stahlschmidt, S., *Applying Crossref and Unpaywall Information to Identify Gold, Hidden Gold, Hybrid and Delayed Open Access Publications in the KB Publication Corpus* Preprint (SocArXiv, 2019). doi:[10.31235/osf.io/sdzft](https://doi.org/10.31235/osf.io/sdzft).
1. **Akbaritabar, A.**, Hezarjaribi, J., Jullien, N., *A Tool for Dynamic Measurement of Social Capital Embedded in Online Social Networks*. *Grafo Working Papers* **4**, 1–30. doi:[10.5565/rev/grafowp.14](https://doi.org/10.5565/rev/grafowp.14) (2015).

Dissertations, and other journals

5. **Akbaritabar, A.** *Quantitative Sociology of Academic Work in an Era of Hypercompetition and Rankings* PhD thesis (Università degli Studi di Milano, 2019). doi:[10.13130/AKBARITABAR-ALIAKBAR_PHD2019-04-16](https://doi.org/10.13130/AKBARITABAR-ALIAKBAR_PHD2019-04-16).
4. **Akbaritabar, A.** *Interactive Dashboard on Key Actors in Higher Education Research and Science Studies (HERSS)* German Center for Higher Education Research and Science Studies (DZHW). Federal Ministry of Education and Research (BMBF), 2018. https://akbaritabar.github.io/CV_MD/herss_world_map_flexdashboard.html.
3. **Akbaritabar, A.** *Iranian's Cyber Social Capital; Background Factors and Outcome* PhD thesis (Allameh Tabataba'i University, Tehran, Iran, 2017).
2. Squazzoni, F., **Akbaritabar, A.**, Internationalizing Sociology in Italy, 1970s-2010s. **7**, 10–11. <https://globaldialogue.isa-sociology.org/articles/internationalizing-sociology-in-italy-1970s-2010s> (2017).
1. **Akbaritabar, A.** *A study on online social networks: case study of Doreh and U24* Master of Sociology (Tarbiat Modares University, Tehran, Iran, 2011).

Invited Talks

2025	A global perspective on social stratification in science, European Society of Historical Demography (link)	<i>Virtual</i>
2025	Keynote: Mobility, Migration, and Collaboration of Scholars, Government Policies and Scientific Collaboration (GPSC) symposium, University of Leiden (link)	<i>Virtual</i>
2025	Using Digital Trace Data to Differentiate Emigration from Return Migration of Scholars, RISIS research seminars (link)	<i>Virtual</i>
2025	Keynote: Mobility, Migration, and Collaboration of Scholars, Second workshop on Methods for the analysis of scientific collaboration networks, University of Catania	<i>Catania</i>
2024	Using Digital Trace Data to Differentiate Emigration from Return Migration of Scholars, Center for Studies in Demography and Ecology (CSDE), University of Washington	<i>Virtual</i>
2024	A global perspective on social stratification in science, Centre for Demographic Studies (CED), Autonomous University of Barcelona	<i>Barcelona</i>
2024	Using digital trace data to study migration, social and collaboration networks, University of Edinburgh (job talk)	<i>Virtual</i>
2024	Using digital trace data to study migration, social and collaboration networks, Trinity College Dublin (job talk)	<i>Virtual</i>
2024	The Scholarly Migration Database, Webinar on innovations in data infrastructure for the longitudinal study of international migration, IUSSP Scientific Panel on Lifetime Migration (video)	<i>Virtual</i>
2024	Computational Approaches to Migration Research, University of St Andrews (job talk)	<i>Virtual</i>
2023	Using digital trace data to study migration, social and collaboration networks, Central European University (job talk)	<i>Vienna</i>
2023	Tie formation mechanisms in social networks, Central European University (job talk)	<i>Vienna</i>
2023	Quantifying the mobility and migration of scholars worldwide, Scientific Mobility Conference, University of Granada	<i>Virtual</i>
2023	Computational Approaches to Migration Research, University of Rostock (job talk)	<i>Rostock</i>
2022	Internal and international migration of scholars worldwide, RISIS research seminars (link)	<i>Virtual</i>
2022	Methodological monotheism across fields of science in contemporary quantitative research, Canada Research Chair on the Transformations of Scholarly Communication (with Andres Castro)	<i>Virtual</i>
2022	Internal and international migration of scholars worldwide, University of Koblenz (job talk)	<i>Koblenz</i>
2022	Plasticity: the anchor concept of the neurosciences, Robert Merton Centre for Science Studies, Humboldt-Universität zu Berlin (with Beatrix Rubin)	<i>Berlin</i>
2022	Cyber Social Capital, Scientific Collaboration, and Scholarly Migration; Three studies through the lens of social network analysis, University of Utrecht (job talk)	<i>Virtual</i>
2022	Cyber Social Capital, Scientific Collaboration, and Scholarly Migration; Three studies through the lens of social network analysis, University of Oxford (job talk)	<i>Virtual</i>

2022	Internal and international migration of scholars worldwide, Canada Research Chair on the Transformations of Scholarly Communication	<i>Virtual</i>
2021	Internal and international migration of scholars worldwide, 3rd Thematic workshop “Migration and Big Data”, French Collaborative Institute on Migration, CNRS	<i>Virtual</i>
2020	Italian sociologists: a community of disconnected groups, The Mitchell Centre for Social Network Analysis seminars (video)	<i>Virtual</i>
2020	A Network Analysis Study on the Internationalization of Higher Education Research, University College London (UCL), workshop for the special issue of European Journal of Education (with Giovanni Barbato)	<i>Virtual</i>
2019	Merits and Limits: Applying open data to monitor open access publications in bibliometric databases, Workshop on Matching procedures for Unpaywall and Web of Science, Bielefeld University	<i>Bielefeld</i>
2019	A spatial scientometric and network analysis of Higher Education Research and Science Studies (HERSS), International symposium on Academia in the Age of Comparison, Leibniz Center for Science and Society (LCSS) of Hanover University	<i>Hanover</i>
2019	Dashboards for academic reports? Introducing Key Actors in Higher Education Research and Science Studies (HERSS Dashboard), Research Colloquium, German Center for Higher Education Research and Science Studies (DZHW)	<i>Berlin</i>
2018	A quantitative sociology of academic work in an era of hypercompetition and rankings, Centre for Science and Technology Studies (CWTS) seminars	<i>Leiden</i>
2018	Gender and ethnic patterns of publication in top sociology journals, Research Group in Experimental and Computational Sociology, University of Brescia	<i>Brescia</i>
2017	Cyber Social Capital: A comparative SNA study on a sample of English, French and Persian speaking users of Facebook and Google plus, Iranian Sociological Association	<i>Tehran</i>
2017	Contexts that matter the most: Institutional embeddedness of research productivity of sociologists in Italy, Research Group in Experimental and Computational Sociology, University of Brescia	<i>Brescia</i>
2013	Organizational Network Analysis: How Social Media will change the way Information is shared in Organizations, Second National Conference on Social Media day	<i>Tehran</i>
2013	How Online Social Networks shape youth’s Lifestyle and Leisure time, National Congress on Lifestyle and Leisure Time	<i>Shiraz</i>
2011	Book-based Group Activities in Social Networking Sites, Case study of U24.ir, Conference on Book and Social Media	<i>Tehran</i>
2011	How to use SNA in study of online social networks, Conference on Online Social Networks and Everyday Life	<i>Tehran</i>
2011	Youth Responsibility In Online Social Networks: Case Study of U24.ir, National Conference on Youth Responsibility	<i>Shiraz</i>

Conference Presentations

IC²S² - International Conference on Computational Social Science

2015, Northwestern University; 2019, Amsterdam; 2021, ETH Zurich; 2022, Chicago - Virtual (1 talk, 1 poster); 2023, Copenhagen (3 talks, 1 poster); 2024, Philadelphia (1 talk as co-author); 2025, Norrköping (1 talk as co-author, 2 posters)

INSNA Sunbelt - International Network for Social Network Analysis

2015, Brighton; 2018, Utrecht; 2020, Virtual (1 organized track); 2021, Networks 2021: A Joint Sunbelt and NetSci Conference; 2022, Carins - Virtual (2 talks); 2023, Portland - Virtual (2 talks)

NetSci - International School and Conference on Network Science || EUSN - European Conference on Social Networks

2016, EUSN Paris; 2021, Networks 2021: A Joint Sunbelt and NetSci Conference, Virtual; 2023, NetSci Vienna (1 talk, 1 session as chair)

ISSI - International Society for Scientometrics and Informetrics || STI - Science, Technology and Innovation Indicators

2019, Rome; 2023, Indiana - Virtual; 2024, STI Berlin

PAA - Annual Meeting of the Population Association of America

2022, Atlanta - Virtual (2 talks); 2023, New Orleans (1 workshop with 8 invited speakers); 2024, Columbus (2 as co-author, 2 posters, 1 session as discussant); 2025, Washington D.C. (2 talks as co-author)

EPC - European Population Conference || IPC - International Population Conference

2021, IPC Virtual (2 talks); 2022, EPC Groningen (1 talk, 1 workshop with 6 invited speakers); 2024, EPC Edinburgh (3 as co-author, 1 talk); 2025, IPC Brisbane (2 talks as co-author)

Other Conferences

2010, Integrated Conference of Metallurgy Engineers, Tehran; 2011, National Conference on Medical Education, Mashhad

Other Sociology or Demography Conferences

2011, International Technology, Education and Development (INTED) Conference, Valencia - Virtual; 2019, Conferenza Nazionale delle Dottorande e dei Dottorandi in Scienze Sociali, Sapienza University, Rome; 2018, Rome and 2020, Valencia - Virtual, New Frontiers of Peer Review (PEERE); 2021, Methodological Innovations in Research on Spatial Mobility: Potentials and Pitfalls, Hanover - Virtual; 2022, IMISCOE annual conference, Oslo - Virtual; 2023, AISP-SIS, PopDays, Rome; 2023, German Federal Institute for Population Research 50th anniversary, Wiesbaden; 2023, British Society for Population Studies Annual Conference (BSPS), Keele; 2025, 5th Conference of German Academy of Sociology

Membership in Scientific Societies

2023-2025: Population Association of America (PAA); 2022-2026: European Association for Population Studies (EAPS); 2022-2023: International Migration Research Network (IMISCOE); 2015-2016 and 2020-2021: The International Network for Social Network Analysis (INSNA); 2011-2015: The Iranian National Association of Social Welfare

Public Outreach and Other Service

Podcast Guest,

2023 PNAS Science Sessions Podcast with X. Zhao, R. Kashyap and E. Zagheni on “Gender gap among migrant scientists” ([link](#))

Contributor,

2023 Awesome Computational Social Science GitHub Repository ([link](#))

Written post,

2023 International Union for the Scientific Study of Population (IUSSP), description of the workshop on the inauguration of the Scholarly Migration Database at PAA2023 ([link](#))

Written post,

2022 International Union for the Scientific Study of Population (IUSSP), description of the workshop on using bibliometric data for demographic research ([link](#))

Contributor,

2022 Published social network surveys and software GitHub repository ([link](#))

Interview,

2022 MPIDR's press department on “How to Use Bibliometric Data for Demographic Research” ([link](#))

Public talk,

2022 African Science Day titled “Development and Global Migration of Scholars: Trends and Patterns revealed by Bibliometric Data”, African Development Initiative e.V. (ADI e.V.), Rostock, Germany

Translator,

2022 Contributed to Persian translation of the Declaration on Research Assessment (DORA) ([link](#))

Interview,

2021 MPIDR's press department on “New Researcher at the Digital and Computational Demography Lab” ([link](#))

Maintainer,

2020- Calendar of Computational Social Science Events Worldwide ([link](#))

Interview,

2015 M@rsouin institute about Social Village ([link](#))

Blogger,

2011-2015 Accessible scientific contents about Social Network Analysis. (104 posts in Persian) ([link](#))

Additional Training

Supervising Doctoral Researchers

Instructor: Thomas Koch at Max Planck Institute for Demographic Research

Rostock, Germany

04-05/09/2025

Data Visualization Design Instructor: Jonas Schöley at Max Planck Institute for Demographic Research (link)	Rostock, Germany 23-27/06/2025
Building and Managing Your Research Group Instructor: Thomas Koch at Planck Academy of the Max Planck Society (link)	Virtual 29-30/04/2025
10th Annual Berkeley Workshop in Formal Demography Instructors: Robert Chung, Dennis Feehan, Ayesha Mahmud, Joshua Goldstein at UC Berkeley (link)	Berkeley, USA 03-07/06/2024
Introduction to Machine Learning and Predictive Modeling Instructor: Samin Aref from University of Toronto hosted at MPIDR (link)	Rostock, Germany 05/2023
Media Training Workshop Instructors from Econnect Communication (link)	Virtual 15-16/05/2023
Inspirational Leadership and Supervision Instructor: Daniel Mertens (link)	Rostock, Germany 21-22/02/2023
Science of Science Summer School (S4) School of Information Studies at Syracuse University Instructors: Daniel Acuña, Stephen David, et al. (link)	Virtual 26-30/07/2021 - 02-06/08/2021
Topics in Digital and Computational Demography International Max Planck Research School for Population, Health and Data Science (IMPRS-PHDS, IDEM187) Instructors: Diego Alburez-Gutierrez, Samin Aref, André Grow, Emilio Zagheni (link)	Virtual 9-13/11/2020
Academic English Writing BIEN Soft Skill Workshops, The German Institute for Economic Research (DIW) Instructor: Tim Korver (link)	Berlin, Germany 9/04/2019
Analyzing network dynamics and peer influence processes with RSiena XXXVIII Sunbelt Conference on Social Network Analysis Instructors: Christian Steglich, Robert Krause	Utrecht, the Netherlands 26/06/2018, 6 hours: 9:00-16:00
Visualizing Social Networks. How to Create Meaningful and Compelling Network Drawings XXXVIII Sunbelt Conference on Social Network Analysis Instructors: Juergen Pfeffer, Mirco Schonfeld	Utrecht, the Netherlands 27/06/2018, 3 hours: 9:00-12:00
Bibliometric Network Analysis and Science Mapping Using VOSviewer The Centre for Science and Technology Studies (CWTS), Leiden University Instructors: Ludo Waltman, Nees Van Eck (link)	Leiden, the Netherlands 12-13/04/2018
Agent-based modelling for social scientists Summer school at the University of Brescia Instructors: Flaminio Squazzoni, Simone Gabbriellini, Nicolas Payette, Federico Bianchi	Brescia, Italy 4-8/09/2017
Python for social scientists Spring school at the University of Trento Instructor: Jonathan Bright (Oxford Internet Institute)	Trento, Italy 12-13/04/2017
Agent-based modelling for social scientists Summer school at the University of Brescia Instructors: Flaminio Squazzoni, Simone Gabbriellini, Federico Bianchi	Brescia, Italy 20-24/06/2016
Analysis of Longitudinal Social Network Data using RSIENA 2nd European Conference on Social Networks (EUSN) Instructors: Tom Snijders, Christian Steglich	Paris, France 14/06/2016, 3 hours: 9:00-12:00
Temporal Exponential Random Graph Model (TERGM) 2nd European Conference on Social Networks (EUSN) Instructors: Lorien Jasny, Michal Bojanowski	Paris, France 14/06/2016, 3 hours: 16:30-19:30
Social Networks and Organizations Doctoral course as seminar series at the Italian University of Switzerland (USI) Instructors: Alessandro Lomi, Christoph Stadtfeld, Per Block, Viviana Amati, Paola Zappa	Lugano, Switzerland Apr. 2016 - Jun. 2016
Exponential Random Graph Models (ERGMs) for statistical analysis of Network data 2nd edition Spring school at the Italian University of Switzerland (USI) Instructors: Garry Robins, Alessandro Lomi, Paola Zappa	Lugano, Switzerland 18-20/04/2016
Personal Network Analysis (PNA) 8th edition of Summer school at the Autonomous University of Barcelona (UAB) Instructors: Jose Luis Molina, Miranda Jessica Lubbers, Jürgen Lerner, Raffaele Vacca, Alejandro García Macías	Barcelona, Spain 6-10/07/2015

Skills

Languages	Persian (Farsi) and Qashqai : as mother tongues; English : TOEFL IBT 2015, 96/120 (R: 23, L: 24, S: 22, W: 27); Arabic : Basic level in reading and writing; Italian : B1, University of Bergamo certificate; German : B1, TELC certificate, B2.2, and C1, University of Rostock certificates.
Programming	R and Python : Parallelized extract, transform, and load (ETL), network analysis, text analysis, web scrapping, dynamic reports, Shiny, R-Markdown; SQL : Tabular databases: Oracle, PostgreSQL; In-memory databases: DuckDB; Graph Databases: ArangoDB
Statistical	SPSS, Stata, R, Python
Networks	iGraph, Pajek, Ucinet, NodeXL, Gephi, Cytoscape
Simulation	Agent-Based Modelling (ABM) in NetLogo and Mesa Python
Version control	Git, GitHub, GitLab
Office; OS	Microsoft Office Programs, LibreOffice; Windows, Linux, Mac iOS
Typesetting	LaTeX, Markdown
Qualitative	RQDA
IDE	VS-Code, Jupyter, RStudio, DBeaver, Command-line terminal
Cloud computing	Amazon AWS and SakeMaker; Databricks; Google Colaboratory
Other	• 01/06/2023 - present, Certified fire protection helper (Brandschutzhelfer) at MPIDR, training at AFZ Rostock • 24/02/2024 - present, Certified first aid helper at MPIDR, training at Malteser Rostock • 2024, Certificate for Good Clinical Practice in Social and Behavioral Research course by National Institutes of Health • Running and cycling (Strava personal, DemogRunners club)