

Carolina Coimbra Vieira

Konrad-Zuse-Str., 1 – 18057 Rostock, Germany

✉ (+49) 176 4347 6649 • ✉ coimbravieira@demogr.mpg.de
🌐 <https://carolcoimbra.github.io/>

EDUCATION

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| Max Planck Institute and Saarland University | MPI & UdS |
| ◦ <i>Ph.D. Computer Science</i> | <i>2020–present</i> |
| Research topic: Migration, culture, and inequalities in algorithmically-mediated societies | |
| Federal University of Minas Gerais | UFMG |
| ◦ <i>M.Sc. Computer Science – GPA: 96/100</i> | <i>2018–2020</i> |
| Thesis topic: A computational methodology to measure the cultural identity of countries. | |
| Federal University of Minas Gerais | UFMG |
| ◦ <i>B.Sc. Information Systems – GPA: 4.9/5.0</i> | <i>2014–2017</i> |
| Thesis topic: Generating heterogeneous music playlists. | |

EXPERIENCE

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| Postdoctoral Research Scientist | 2025–present |
| ◦ <i>Laboratory of Digital and Computational Demography, MPIDR</i> | |
| Lecturer | 2025 |
| ◦ <i>Max Planck Institute for Demographic Research</i> | |
| Digital and Computational Demography Course: "Digital trace data for migration research" | |
| Ph.D. Researcher | 2020–2025 |
| ◦ <i>Laboratory of Digital and Computational Demography, MPIDR</i> | |
| Population dynamics in association with interests expressed in digital data. | |
| Master Thesis Discussant and Evaluator | 2025 |
| ◦ <i>European Doctoral School of Demography (EDSD)</i> | |
| Discussant and evaluator for master's thesis presentations at the EDSD 2025. | |
| Organizer | 2025 |
| ◦ <i>SICSS-Saarbrücken 2025</i> | |
| Summer Institute in Computational Social Science | |
| Lecturer and Workshop Organizer | 2025 |
| ◦ <i>International Population Conference 2025</i> | |
| Workshop on "Exploring Migration Patterns using Digital Trace Data" | |
| Selection Committee Member | 2025 |
| ◦ <i>University of Manchester and Max Planck Institute for Demographic Research</i> | |
| Member of the selection committee for the PhD Studentship in Social Statistics, jointly offered by the Max Planck Institute for Demographic Research and the University of Manchester (2025) | |
| Seminar Chair | 2024–2025 |
| ◦ <i>Seminar Chair in the Department of Digital and Computational Demography, MPIDR</i> | |

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Organizer	2025
○ <i>Symposium Measuring Migration in Latin America 2025</i> Symposium Measuring Migration in Latin America: Leveraging digital traces, registers, censuses, and surveys	
Lecturer and Workshop Organizer	2024
○ <i>Congreso de la Asociación Latinoamericana de Población 2024 (ALAP)</i> Course on "Opportunities and limits of working with digital data for the study of international migration"	
Lecturer	2024
○ <i>Escola Nacional de Ciências Estatísticas IBGE</i> Big Data and Public Statistics Course: "Exploring Migration Patterns Using Digital Trace Data"	
Lecturer	2024
○ <i>University of Rostock and Max Planck Institute for Demographic Research</i> Migration and Society Course: "Culture and Migration"	
Lecturer and Workshop Organizer	2024
○ <i>African Population Conference 2024</i> Workshop on "Exploring Migration Patterns using Digital Trace Data"	
Lecturer	2023
○ <i>Summer Academy Neubeuern (Studienstiftung des deutschen Volkes)</i> "How Social Media are Shaping our World - Individual and Societal Consequences of Social Media Use"	
Lecturer	2023
○ <i>Spring Academy Roggenburg (Studienstiftung des deutschen Volkes)</i> "Diversity from multiple perspectives - How we (can) observe cultural diversity in the context of migration"	
Selection Committee Member	2022
○ <i>Department of Digital and Computational Demography, MPIDR</i> Member of the selection committee for postdoctoral positions	
Teaching Assistant (Deep Learning)	2021
○ <i>Computer Science Department, Federal University of Minas Gerais</i>	
Teaching Assistant (Machine Learning)	2020
○ <i>Computer Science Department, Federal University of Minas Gerais</i>	
Researcher	2018–2020
○ <i>WISEMAP Laboratory, Federal University of Minas Gerais</i> Topic modeling applied to song lyrics and complex networks applied to fake news dissemination on WhatsApp.	
Visiting Research Assistant	2019
○ <i>Laboratory of Digital and Computational Demography, MPIDR</i> Measuring cross-country cultural similarity using social media data from Facebook Ads.	
Teaching Assistant (Deep Learning)	2019
○ <i>Computer Science Department, Federal University of Minas Gerais</i>	
Tutor (Data Science)	2019
○ <i>Computer Science Department, Federal University of Minas Gerais</i>	
Research Assistant	2016–2017
○ <i>WISEMAP Laboratory, Federal University of Minas Gerais</i> Generating heterogeneous music playlists based on the similarity of songs represented by a graph.	
Research Assistant	2015–2016
○ <i>ICEX, Federal University of Minas Gerais</i> Research project with the Minister of Science and Technology (1992-1999). This project focused on modeling and predicting Brazilian social phenomena such as illiteracy rates and homicide rates.	

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SKILLS

- Python, R, C; LaTeX, Text-Processing Commands (POSIX);
- Data science (Data mining, Data visualization, and Machine Learning);
- Portuguese (native), English (advanced), German (basic), Spanish (basic).

AWARDS

RESPECT fellowship	2023
○ <i>Georgia Institute of Technology</i>	
Young Demographers Best Presentation Award	2022
○ <i>Charles University</i>	
IDDP fellowship Grant \$12,000	2022
○ <i>Institute for Data, Democracy & Politics (IDDP) at the George Washington University</i>	
SICSS Grant \$3,500	2021
○ <i>Summer Institute in Computational Social Sciences (SICSS)</i>	
CSDE Lightning Talks & Poster Session Best Presentation Award	2021
○ <i>University of Washington</i>	
1st place in the Best Student Award	2018
○ <i>Federal University of Minas Gerais</i>	
Honorable Mention in Data Visualization Project	2017
○ <i>Federal University of Minas Gerais</i>	
NAACL Scholarship for the JSALT Summer School	2017
○ <i>Carnegie Mellon University (CMU)</i>	
NAACL Scholarship for the JSALT Summer School on Speech and Language Technology at CMU.	

OTHER ACTIVITIES

Participated – Tutorial: Bridging Human and LLM Annotations	2025
○ <i>Norrköping, Sweden – International Conference on Computational Social Science</i>	
Participated – Tutorial: The Role of AI in Misinformation	2025
○ <i>Norrköping, Sweden – International Conference on Computational Social Science</i>	
Participated – Data Donation Symposium	2024
○ <i>University of Amsterdam</i>	
Participated – Tutorial: Computational Social Science from Space	2023
○ <i>Copenhagen, Denmark – International Conference on Computational Social Science</i>	
Participated – Tutorial: Capturing Human Values during Controversies	2023
○ <i>Copenhagen, Denmark – International Conference on Computational Social Science</i>	
Participated – Summer Institute in Computational Social Sciences (SICSS)	2021
○ <i>Princeton University (online)</i>	
Participated – Course: Population Health	2020
○ <i>Max Planck Institute for Demographic Research</i>	
Participated – Course: Topics in Digital and Computational Demography	2020
○ <i>Max Planck Institute for Demographic Research</i>	

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Participated – Course: Demographic Methods	2020
◦ <i>Max Planck Institute for Demographic Research</i>	
Participated – Pre-doctoral Research School - online Summer School	2020
◦ <i>Max Planck Institute for Software Systems</i>	
Participated – Data visualization – the art/skill cocktail - online course	2020
◦ <i>Max Planck Institute for Demographic Research</i>	
Participated – JSALT Summer School on Speech and Language Technology	2017
◦ <i>Carnegie Mellon University</i>	
Participated – Summer School in Computer Science	2015–2017
◦ <i>Federal University of Minas Gerais</i>	

SELECTED TALKS

- "On the (Un)Predictability of User Watching Behavior with Short Format Videos on TikTok". Symposium on Challenges in a Digitalised Society at MPI for Security and Privacy 2025.
- "Characterizing Global Gender Gaps in STEM Using Facebook Data". The International Conference on Scientometrics & Informetrics 2025 (ISSI 2025).
- "Exploring ChatGPT as a tool for automated classification of authors' positivity perspectives on Russian topics".
 - Workshop on The Use of Generative AI for Science of Science and Higher Education Studies 2025 (AISci).
 - International Conference on Computational Social Science 2025 (IC2S2 '25).
- "Using Digital Trace Data for Demographic Research". Congreso de la Asociación Latinoamericana de Población 2024 (ALAP '24)
- "Digital demography in migration studies: Applications and challenges for Latin America". Live Webinar ABEP 2024.
- "Using Wikipedia data to monitor big migration events"
 - 1st Conference on Computational Social Science 2025 (CS2Italy2025)
 - Congreso de la Asociación Latinoamericana de Población 2024 (ALAP '24)
 - International Migration in Central and Eastern Europe 2024
 - International Conference on Computational Social Science 2024 (IC2S2 '24)
 - European Population Conference 2024 (EPC '24)
 - African Population Conference 2024 (APC '24)
 - Annual Meeting - Population Association of America 2024 (PAA '24)
 - Workshop on "Computational Social Science: AI and Society – Exploring Inequality in the Digital Age" 2025
 - Wiki Workshop 2025
 - 4th International Forum on Migration Statistics 2025 (IFMS 25)
 - 30th International Population Conference 2025 (IPC 2025)

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- "The value of cultural similarity for predicting migration: evidence from food and drink interests in digital trace data".
 - Seminario sobre Gestión y Generación de Datos Sociodemográficos 2023
 - Symposium Measuring Migration in Latin America 2025
- "The value of cultural similarity for predicting migration: evidence from food and drink preferences in Facebook data"
 - XX ISA World Congress of Sociology 2023 (ISA '23)
 - Giornate di Studio sulla Popolazione (PopDays 2023)
 - Alpine Population Conference (ALP-POP 2023)
- "Edits on Wikipedia in response to big migration events"
 - Annual Conference of the British Society for Population Studies 2023 (BSPS '23)
 - International Conference on Computational Social Science 2023 (IC2S2 '23)
 - Annual Meeting - Population Association of America 2023 (PAA '23)
- "Contrasting global gender gaps in STEM using Facebook data and offline indicators"
 - International Conference on Computational Social Science 2023 (IC2S2 '23)
 - XX ISA World Congress of Sociology 2023 (ISA '23)
 - Annual Meeting - Population Association of America 2023 (PAA '23)
 - Annual International Conference of Young Demographers 2023
 - Giornate di Studio sulla Popolazione (PopDays 2023)
- "Evaluating digital polarization in multi-party systems: evidence from the German Bundestag". International Conference on Computational Social Science 2022 (IC2S2 '22).
- "Desaparecidxs: characterizing the population of missing children using Twitter". The Web Science Conference 2022 (WebSci '22).
- "The value of culture for predicting migration: evidence from Facebook data".
 - National Meeting of Population Studies 2022
 - Workshop on Migration and mobility research in the digital era (MIMODE) at Conference on Complex Systems (CCS '22)
 - Portuguese Conference of Demography 2022 (APD '22)
 - Annual Conference of the British Society for Population Studies 2022 (BSPS '22)
 - International Conference on Migration and Mobilities 2022 (iMigMob '22)
 - International Conference on Computational Social Science 2022 (IC2S2 '22)
- "Cultural similarities predict migration over and above shared location, shared language, and shared history".
 - European Population Conference 2022 (EPC '22)
 - Annual Meeting - Population Association of America 2022 (PAA '22)
 - Annual International Conference of Young Demographers 2022

- "The Role of Migration in Shaping Cultural Proximity across Countries: Evidence from Facebook Data on National Cuisines".
 - New data for the new challenges of population and society 2021
 - International Conference on Computational Social Science 2021 (IC2S2 '21)
 - Annual Meeting - Population Association of America 2021 (PAA '21)
- "The interplay of migration and cultural similarity between countries: evidence from Facebook data on food and drink interests". XXIX International Population Conference (IPC '21).
- "Using Facebook Ads Data to Assess Gender Balance in STEM: Evidence from Brazil". Workshop Data Science for Social Good - The Web Conference 2021 (WWW '21).
- "Assessing Cultural Distance between Countries using Facebook Data: The Case of Food as a Cultural Marker and the Role of Migration". CSDE Winter 2021 Lightning Talk & Poster Session 2021.
- "Using Facebook Data to Measure Cultural Distance between Countries: the Case of Brazilian Cuisine". The Web Conference 2020 (WWW '20).
- "Using Facebook Data to Expand Multidimensional Measures of Distance between Countries". Annual Meeting - Population Association of America 2020 (PAA '20).

SELECTED PUBLICATIONS

- **Vieira, Carolina C.**; Sanliturk, Ebru; Zagheni, Emilio. "Forced Migration and Information Seeking Behavior on Wikipedia: Insights from the Ukrainian Refugee Crisis" In Proceedings of the 20th International AAAI Conference on Web and Social Media 2026 (ICWSM 2026).
- **Vieira, Carolina C.**; Vasconcelos, Marisa. "Characterizing Global Gender Gaps in STEM Using Facebook Data." In Proceedings of the 20th International Conference on Scientometrics & Informetrics 2025 (ISSI 2025).
- **Vieira, Carolina C.**; Chechik, E.; Di Césare, V. "Beyond Sentiment Analysis with ChatGPT: Classifying Authors' Perspectives on Russian Topics." In Proceedings of the 20th International Conference on Scientometrics & Informetrics 2025 (ISSI 2025).
- Zhao, Y.; Paul, R.; Reid, S.; **Vieira, Carolina C.**; Wolfe, C.; Zhang, Y.; Chunara, R. "Constructing Social Vulnerability Indexes with Increased Data and Machine Learning Highlight the Importance of Wealth Across Global Contexts." Social Indicators Research (2024).
- **Vieira, Carolina C.**; Lohmann, Sophie; Zagheni, Emilio. "The Value of Cultural Similarity for Predicting Migration: Evidence from Food and Drink Interests in Digital Trace Data." Population and Development Review (2024).
- **Vieira, Carolina C.**; Fatehkia, M.; Garimella, K.; Weber, I.; Zagheni, E.. "Using Facebook and LinkedIn data to study international mobility". In: Salah, A. A.; Eren Korkmaz, E.; Bircan, T. (Eds.): Data science for migration and mobility. Oxford: Oxford University Press (2022).

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- **Vieira, Carolina C.**; Alburez-Gutierrez, Diego; Nepomuceno, Marilia R.; Theile, Tom. "Desaparecidxs: characterizing the population of missing children using Twitter." In Proceedings of the 14th ACM Web Science Conference 2022 (WebSci '22).
- Chin, Amber; **Vieira, Carolina C.**; Kim, Jisu. "Evaluating Digital Polarization in Multi-Party Systems: Evidence from the German Bundestag." In Proceedings of the 14th ACM Web Science Conference 2022 (WebSci '22).
- **Vieira, Carolina C.**; Lohmann, Sophie; Zagheni, Emilio; de Melo, Pedro O. V.; Benevenuto, Fabrício; Ribeiro, Filipe N. "The interplay of migration and cultural similarity between countries: Evidence from Facebook data on food and drink interests." PLoS ONE 17(2): e0262947. (2022).
- **Vieira, Carolina C.**; Vasconcelos, Marisa. "Using Facebook Ads Data to Assess Gender Balance in STEM: Evidence from Brazil." In Companion Proceedings of The Web Conference 2021 (WWW '21).
- **Vieira, Carolina C.**; Ribeiro, Filipe N.; de Melo, Pedro O. V.; Benevenuto, Fabrício; Zagheni, Emilio. "Using Facebook Data to Measure Cultural Distance between Countries: the Case of Brazilian Cuisine." In Proceedings of The Web Conference 2020 (WWW '20).
- de Almeida, Marcos A.; **Vieira, Carolina C.**; de Melo, Pedro O. V.; Assunção, Renato M. "Random Playlists Smoothly Commuting Between Styles." ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM) 15, no. 4 (2019): 1-20. 2019.
- Melo, Philipe de Freitas; **Vieira, Carolina C.**; Garimella, Kiran; de Melo, Pedro O. V.; Benevenuto, Fabrício. "Can WhatsApp Counter Misinformation by Limiting Message Forwarding?". In International Conference on Complex Networks and Their Applications, 372-384. 2019.
- **Vieira, Carolina C.**; Loures, Túlio C.; de Melo, Pedro O. V.; Assunção, Renato M. "The Times They Are A-Changin' (or not): song lyrics analysis over the years". Proceedings of the 25th Brazillian Symposium on Multimedia and the Web, 237-244. 2019.
- **Vieira, Carolina C.**; Melo, Philipe de Freitas; de Melo, Pedro O. V.; Benevenuto, Fabrício. "Viralização de Informação em Redes de Grupos como o Whatsapp". Proceedings of the 37th Brazillian Symposium on Computer Networks and Distributed Systems. 2019.
- de Almeida, Marcos A.; **Vieira, Carolina C.**; de Melo, Pedro O. V.; Assunção, Renato M. "The Fast and Winding Roads that Lead to The Doors: Generating Heterogeneous Music Playlists". Proceedings of the 23rd Brazillian Symposium on Multimedia and the Web, 269-276. 2017.
- de Almeida, Marcos A.; **Vieira, Carolina C.**; de Melo, Pedro O. V.; Assunção, Renato M. "ROPE and STRAW: Automatic Music Playlist Generators". Anais Estendidos do XXIII Simpósio Brasileiro de Sistemas Multimídia e Web. 2017.

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WORKING PAPERS

- **Vieira, Carolina C.** "The World Values Survey in the LLM Era" (2025).
- **Vieira, Carolina C.** "Are all LLMs WEIRD?" (2025).
- **Vieira, Carolina C.**; Mousavi, S.; Dash, A.; Ayalon, O.; Gummadi, K. P.; Zannettou, S. "On the (Un)Predictability of User Watching Behavior with Short Format Videos on TikTok" (2025).
- **Vieira, Carolina C.**; Chechik, E.; Di Césare, V. "Exploring ChatGPT as a tool for automated classification of US authors' positivity perspectives on Russian topics" (2025).