Carolina Coimbra Vieira

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

☐ (+49) 176 4347 6649 • ☑ coimbravieira@demogr.mpg.de https://carolcoimbra.github.io/

EDUCATION

Max Planck Institute for Demographic Research

MPIDR

Ph.D. in Computer Science

2020-present

International Max Planck Research School for Population, Health and Data Science (IMPRS-PHDS) Research topic: Population dynamics in association with interests expressed in digital data

Federal University of Minas Gerais

UFMG

M.Sc. Computer Science - GPA: 96/100

2018-2020

Thesis topic: A computational methodology to measure the cultural identity of countries.

Federal University of Minas Gerais

UFMG

Bachelor of Information System - GPA: 4.9/5.0

2014-2017

Thesis topic: Generating heterogeneous music playlists.

EXPERIENCE

2024-present Seminar Chair Seminar Chair in the Department of Digital and Computational Demography Max Planck Institute for Demographic Research. 2024-2024 Migration and Society Course University of Rostock and Max Planck Institute for Demographic Research. 2024-2024 African Population Conference 2024 Workshop on "Exploring Migration Patterns using Digital Trace Data" 2023-2023

Summer Academy Neubeuern

Summer Academy Neubeuern organized by Studienstiftung des deutschen Volkes.

"How Social Media are Shaping our World - Individual and Societal Consequences of Social Media Use"

2023-2023 Lecturer

Spring Academy Roggenburg

Spring Academy Roggenburg organized by Studienstiftung des deutschen Volkes.

"Diversity from multiple perspectives - How we (can) observe cultural diversity in the context of migration"

Ph.D. student 2020-present

Laboratory of Digital and Computational Demography, MPIDR

Research on population dynamics in association with interests expressed in digital data.

Teaching Assistant (Deep Learning)

2021-2021

Computer Science Department, Federal University of Minas Gerais

0		2020–2020
0		2018–2020
0	Visiting researcher	
0		2019–2019
0		2019–2019
0		
0	ICEX, Federal University of Minas Gerais Research project with the Minister of Science and Technology (1992-1999). This project focused	2015-2016 on modeling
Δ	and predicting Brazilian social phenomena such as illiteracy rates and homicide rates. WARDS	
△	AWARDS Achievement – RESPECT fellowship	2023
	AWARDS Achievement – RESPECT fellowship Georgia Institute of Technology Young Demographers Best Presentation Award	2023 2022
0	AChievement – RESPECT fellowship Georgia Institute of Technology Young Demographers Best Presentation Award Charles University Achievement – IDDP fellowship Grant	2022 2022
0	Achievement – RESPECT fellowship Georgia Institute of Technology Young Demographers Best Presentation Award Charles University Achievement – IDDP fellowship Grant Institute for Data, Democracy & Politics (IDDP) at the George Washington University SICSS Grant	2022 2022
0 0	Achievement – RESPECT fellowship Georgia Institute of Technology Young Demographers Best Presentation Award Charles University Achievement – IDDP fellowship Grant Institute for Data, Democracy & Politics (IDDP) at the George Washington University SICSS Grant Summer Institute in Computational Social Sciences (SICSS) CSDE Lightning Talks & Poster Session Best Presentation Award	2022
0 0 0	Achievement – RESPECT fellowship Georgia Institute of Technology Young Demographers Best Presentation Award Charles University Achievement – IDDP fellowship Grant Institute for Data, Democracy & Politics (IDDP) at the George Washington University SICSS Grant Summer Institute in Computational Social Sciences (SICSS) CSDE Lightning Talks & Poster Session Best Presentation Award University of Washington 1st place in the Best Student Award	2022 2022 2021
0 0 0 0	Achievement – RESPECT fellowship Georgia Institute of Technology Young Demographers Best Presentation Award Charles University Achievement – IDDP fellowship Grant Institute for Data, Democracy & Politics (IDDP) at the George Washington University SICSS Grant Summer Institute in Computational Social Sciences (SICSS) CSDE Lightning Talks & Poster Session Best Presentation Award University of Washington 1st place in the Best Student Award	2022 2022 2021 2021

SKILLS

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

OTHER ACTIVITIES

0	Participated – Data Donation Symposium University of Amsterdam	2024
0	Participated – Summer Institute in Computational Social Sciences (SICSS) Princeton University (online)	2021
0	Participated – Course: Population Health Max Planck Institute for Demographic Research	2020
0	Participated – Course: Topics in Digital and Computational Demography Max Planck Institute for Demographic Research	2020
0	Participated – Course: Demographic Methods Max Planck Institute for Demographic Research	2020
0	Participated – Pre-doctoral Research School - online Summer School Max Planck Institute for Software Systems	2020
0	Participated – Data visualization – the art/skill cocktail - online course Max Planck Institute for Demographic Research	2020
0	Participated – JSALT Summer School on Speech and Language Technology Carnegie Mellon University	2017
0	Participated – Summer School in Computer Science Federal University of Minas Gerais	2015–2017

SELECTED TALKS

- o "Digital demography in migration studies: Applications and challenges for Latin America". Live Webinar ABEP 2024.
- o "Using Wikipedia data to monitor big migration events"
 - 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)
- o "Exploring migration patterns using digital trace data". African Population Conference 2024 (APC '24)
- o "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

- o "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)
- o "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)
- o "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)
- o "Evaluating digital polarization in multi-party systems: evidence from the German Bundestag". International Conference on Computational Social Science 2022 (IC2S2 '22).
- o "Desaparecidxs: characterizing the population of missing children using Twitter". The Web Science Conference 2022 (WebSci '22).
- o "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)
- o "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
- o "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)

- o "The interplay of migration and cultural similarity between countries: evidence from Facebook data on food and drink interests". XXIX International Population Conference (IPC '21).
- o "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).
- o "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.
- o "Using Facebook Data to Measure Cultural Distance between Countries: the Case of Brazilian Cuisine". The Web Conference 2020 (WWW '20).
- o "Using Facebook Data to Expand Multidimensional Measures of Distance between Countries". Annual Meeting Population Association of America 2020 (PAA '20).

SELECTED PUBLICATIONS

- o 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).
- o 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).
- o **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).
- o **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).
- o 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).
- o 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).

- o 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).
- o 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.
- o 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.
- o **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.
- o **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.
- o 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.
- o 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.