Carolina Coimbra Vieira

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

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

Seminar Chair 2024-present

Seminar Chair in the Department of Digital and Computational Demography Max Planck Institute for Demographic Research.

_ecturer 2024-2024

Congreso de la Asociación Latinoamericana de Población 2024 (ALAP)

Course on "Opportunities and limits of working with digital data for the study of international migration"

Lecturer 2024–2024

Escola Nacional de Ciências Estatísticas IBGE

Big Data and Public Statistics Course: "Exploring Migration Patterns Using Digital Trace Data"

Lecturer 2024–2024

University of Rostock and Max Planck Institute for Demographic Research
Migration and Society Course: "Culture and Migration"

Lecturer 2024–2024

African Population Conference 2024

Workshop on "Exploring Migration Patterns using Digital Trace Data"

Lecturer 2023–2023

Summer Academy Neubeuern (Studienstiftung des deutschen Volkes)

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

Lecturer 2023–2023

Spring Academy Roggenburg (Studienstiftung des deutschen Volkes)

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

0	Ph.D. student Laboratory of Digital and Computational Demography, MPIDR	20-present	
0	Research on population dynamics in association with interests expressed in digital data. Teaching Assistant (Deep Learning)	2021–2021	
0	Teaching Assistant (Machine Learning)	2020–2020	
0		2018–2020	
0			
0		2019–2019	
0		2019–2019	
0	WISEMAP Laboratory, Federal University of Minas Gerais Research about generating heterogeneous music playlists, including the creation of a new algori (Steered Random Walker), that create playlists based on the similarity of songs represented by Research Assistant	/ a graph. 2015–2016	
AWARDS			
0	Achievement – RESPECT fellowship Georgia Institute of Technology	2023	
0	Young Demographers Best Presentation Award	2022	
0	Achievement – IDDP fellowship Grant \$12,000 Institute for Data, Democracy & Politics (IDDP) at the George Washington University	2022	
0	SICSS Grant \$3,500 Summer Institute in Computational Social Sciences (SICSS)	2021	
0	CSDE Lightning Talks & Poster Session Best Presentation Award University of Washington	2021	
0	1st place in the Best Student Award	2018	

2017

Last update: December 21, 2024

Honorable Mention
Federal University of Minas Gerais

Honorable Mention for the project presented in the Competition of Data Visualization. Work available on: http://carolcoimbra.github.io/.

NAACL Scholarship for the JSALT Summer School

2017

Carnegie Mellon University (CMU)

NAACL Scholarship for the JSALT Summer School on Speech and Language Technology at CMU.

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 "Using Digital Trace Data for Demographic Research". Congreso de la Asociación Latinoamericana de Población 2024 (ALAP '24)
- 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"
 - 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)
- 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).
- 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.