

Sofia Gil-Clavel, MSc.
(Computer and Actuarial Scientist)

PhD Candidate in Demography

Interests: Computational Social Science, Demography, Computer Science

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EDUCATION

[2018 -] **Ph.D. Student** at the DCoDe Lab. of the Max Planck Institute for Demographic Research (MPIDR).

[2020 -] Affiliated to the Faculty of Spatial Sciences of the University of Groningen.

[2019 -] Part of the International Max Planck Research School for Population, Health and Data Science (IMPRS-PHDS).

[2021 -] Part of the Consortium on Analytics for Data-Driven Decision-Making (CANd3).

[2015-2017] **Master of Science** with Specialization on **Computing and Industrial Mathematics**. Center of Mathematics Research (CIMAT), Mexico.

[2009-2014] **Bachelor of Science in Actuarial Science**. National Autonomous University of Mexico (UNAM).

International AAAI Conference on Web and Social Media, 13, 647–650. Retrieved from <https://ojs.aaai.org/index.php/ICWSM/article/view/3263>

Gil-Clavel, S., Zagheni, E., and Bordone, V. (2021). Close social networks among older adults: the online and offline perspectives. *Population Research and Policy Review*, 1-25. <https://link.springer.com/article/10.1007/s11113-021-09682-3>

CONFERENCES

I have presented my work at (complete list in Appendix A):

IMISCOE: International Migration, Integration and Social Cohesion in Europe.

PAA: Population Association of America.

ICWSM: International Conference on Web and Social Media.

SOMEDE: Mexican Society of Demography.

WORK EXPERIENCE

Head of the Demographic Analysis Department. National Population Council of Mexico (CONAPO). [2017-2018]

Research support. Center of Demographic, Urban, and Environmental Studies (CEDUA) of El Colegio de Mexico (COLMEX). [2014-2015]

SELECTED ARTICLES

Complete list [here](#).

Gil-Clavel, S., & Zagheni, E. (2019). Demographic Differentials in Facebook Usage around the World. *Proceedings of the*

SKILLS

Statistical Analysis: R, Python.

Programming: Python, R, C++, VBA.

Text processing: LATEX, R-Markdown, Jupyter Notebook.

Data visualization and exploration: R (shiny, ggplot, plotly), Gephi.

Use of Application Programming Interfaces (APIs): Facebook and Twitter

Languages: Spanish (native), English (advanced), German (intermediate)

Complete list of courses attended during PhD can be found in Appendix B.

Appendix A: Complete list of Presentations at Conferences

Sofia Gil-Clavel, André Grow, Maarten J. Bijlsma, “EU-15 Immigrants Language Integration on Twitter”. Presentation for Dutch Demography Day. Session: Poster Pitch. November 2021.

Sofia Gil-Clavel, “Immigrants’ Cultural Integration Patterns in Spain, Germany, and the UK: Tweets as Expressions of Context”¹. Presentation for IMISCOE General Conference. Session: Migrant Transnationalism 13. July 2021.

Sofia Gil-Clavel, “EU-15 Immigrants Language Integration on Twitter”. Poster presentation for the IMPRS-PHDS Graduate Workshop. June 2021.

Sofia Gil-Clavel, Emilio Zagheni, and Valeria Bordone, “Close Social Networks among Older Adults: The Online and Offline Perspectives”. Accepted presentation for PAA. Flash session: Social Networks, Social Support, and Health. May 2021.

Sofia Gil-Clavel, “Immigrants’ Cultural Integration Patterns in Spain, Germany, and the UK: Tweets as Expressions of Context”². Presentation for IMISCOE Spring Conference. Session: Messaging Migration on and Through Social Media. March 2021.

Sofia Gil-Clavel, Emilio Zagheni and Valeria Bordone, “Close Social Networks among Older Adults: The Online and Offline Perspectives”. Presentation for the Dutch Demography Week. Session: Families in later life. November 2020.

Sofia Gil-Clavel, Valeria Bordone and Emilio Zagheni, “Determinants of Online and Offline Close Social Networks Among Older Adults”. Accepted presentation for EPC. Session: Health and Wellbeing in a Digital World. June 2020. Cancelled due to COVID-19.

Sofia Gil-Clavel, Valeria Bordone and Emilio Zagheni, “Determinants of Online and Offline Close Social Networks Among Older Adults”. Accepted presentation for PAA. Flash session: Use of Big Data to Model Health Outcomes and Mortality. April 2020. Cancelled due to COVID-19.

Sofia Gil-Clavel and Emilio Zagheni, “Demographic Differentials in Facebook Usage Around the World”, poster presented at The International AAI Conference on Web and Social Media (ICWSM-2019). June 2019.

Sofia Gil-Clavel and Emilio Zagheni, “Demographic Differentials in Facebook Usage Around the World”, presented at IUSSP Digital Demography in the Era of Big Data. June 2019.

Sofia Gil-Clavel and Emilio Zagheni, “Demographic Differentials in Facebook Usage Around the World”, poster presented at Population Fest 2019 (PopFest2019). May 2019.

Sofia Gil-Clavel, “Estimation of the infant mortality rate in Mexico in 2015 at municipal level using numerical techniques”, presented at the XIV National Meeting of the Mexican Society of Demography (SOMEDE). June 2018.

¹ The final name of the work was “EU-15 Immigrants Language Integration on Twitter”.

² The final name of the presentation was: EU-15 Immigrants Cultural Integration –In Twitter.

Appendix B: Complete List of Courses Attended during PhD

(Non-) Probability Samples in the Social Sciences. Part of the Summer School in Survey Methodology 2021 given by GESIS.

Survey Sampling and Weighting. Part of the Summer School in Survey Methodology 2021 given by GESIS.

Advanced Methods for Causal Inference with Observational Data. Part of the 2021 elective courses of the IMPRS-PHDS.

Working with Data for Population Research, course given by the Faculty of Spatial Sciences of the University of Groningen.

Fundamentals of Digital and Computational Demography. Part of the core-courses of IMPRS-PHDS 2019.

Population Health. Part of the core-courses of IMPRS-PHDS 2019.

Demographic Methods. Part of the core-courses of IMPRS-PHDS 2019.

Causal Mediation Analysis. University of Helsinki. May 2019.

Using the GWDG Scientific Compute Clusters – An Introduction. October 2018.

Parallel Programming with MPI (Including MPI for Python). October 2018.