

Sofia Gil-Clavel

Computer, Actuarial, and Population Scientist

Interests: Computational Social Science, Demography, Computer Science



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WORK EXPERIENCE

Researcher. [2022-] Multi-Actor Systems Department, TU Delft, Netherlands.

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

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

EDUCATION

Ph.D. Student [2020-2023] affiliated with the Faculty of Spatial Sciences of the University of Groningen, Netherlands.

Ph.D. Student [2018-2022] at the Max Planck Institute for Demographic Research, Germany.

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

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

SKILLS

Statistical Analysis: R, Python.

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

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

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

Use of Application Programming Interfaces (APIs): Facebook, Twitter, etc.

Languages: Spanish (native), English (advanced), German (basic), Dutch (basic).

SELECTED ARTICLES

(Complete list [here](#))

Gil-Clavel, S., & Filatova, T. (2023). *Using Natural Language Processing and Networks to Automate Structured Literature Reviews: An Application to Farmers Climate Change Adaptation* <https://arxiv.org/pdf/2306.09737.pdf>

Gil-Clavel, S., & Mulder, C. H. (2023). *Does Twitter data mirror the European North-South family ties divide? A comparative analysis of tweets about family* <https://doi.org/10.31219/osf.io/c379h>

Gil-Clavel, S., Grow, A., & Bijlsma, M. J. (2023). *Migration Policies and Immigrants' Language Acquisition in EU-15: Evidence from Twitter*. Population and Development Review. <https://doi.org/10.1111/padr.12574>

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://doi.org/10.1007/s11113-021-09682-3>

Gil-Clavel, S., & Zagheni, E. (2019). *Demographic Differentials in Facebook Usage around the World*. *Proceedings of the International AAAI Conference on Web and Social Media*, 13, 647–650. Retrieved from <https://ojs.aaai.org/index.php/ICWSM/article/view/3263>

CONFERENCES

- **ICWSM:** International Conference on Web and Social Media.
- **EPC:** European Population Conference
- **PAA:** Population Association of America.

Complete list of Professional Activities is in Appendix A.

Appendix A: Complete list of Professional Activities

Invited speaker at the Department of Methodology and Statistics of Tilburg University to present “Big Data as a Data Source for Research: the Case of Facebook Data”. March 2023.

Invited speaker at the Permanent Seminar ‘Aplicaciones de ciencia de datos en las ciencias sociales y las humanidades’ of El Colegio de México. Presentation: “La asociación entre las políticas de integración cívica y de ciudadanía con el uso de la lengua de destino de los inmigrantes de la UE-15: Uso de datos de Twitter para analizar la adquisición de idiomas” (You can find the video [here](#)). November 2022.

Gave a virtual training Workshop at El Colegio de Mexico “V Coloquio Internacional Estudiantil en Población, Ciudad y Ambiente”: *Uso de APIs para la descarga de datos* ([link](#)). April 2022.

Invited as discussant at the panel “Machine learning in the social sciences” of the *MigrantLife Symposium* ([link](#)). March 2022.

Invited as discussant at the panel “Digital Traces for demographic knowledge” of the *Population Studies Association of Argentina* (AEPA) ([link](#)). October 2021.

Invited to the roundtable Demographic Research with Web and Social Media Data at the *Latin American Population Association*, organized by Diego Alburez-Gutierrez. You can find the video [here](#).

Gave a [training Workshop](#) at IUSSP Digital Demography in the Era of Big Data Pre-Workshop: *Demography Today Training* ([link](#)). June 2019.

Organizer at the ICWSM 2019 Workshop: *Demographic Research with Web and Social Media Data* ([link](#)). June 2019.

Other Professional Activities:

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|---|-----------------------|
| • Launched Reading Club at the SC3 Group of TU Delft. | [April 2023 – ...] |
| • Co-launched Peer-Review Workshop at the IMPRS-PHDS. | [Aug.2020 – Apr.2022] |
| • Elected PhD Core Representative at the IMPRS-PHDS. | [Nov.2019–Jun.2022] |
| • Elected PhD External Representative at the MPIDR. | [Jun.2020 – Jun.2021] |