



Research Interests

Topics

- Climate Change
- Digital Demography
- Socio-Ecological Systems

Research Tools

Data

- Digital Trace Data
- Classic Data Sources

Methods

- Statistics
- NLP/LLMs
- Machine Learning

General Skills

Programming:

- R (★★★★★)
- Python (★★★★★)
- C++ (★★★★★)
- VBA (★★★★★)

AI Ecosystem:

- PyTorch (ML) (★★★★★)
- Spacy (NLP) (★★★★★)
- Prodigy (labelling) (★★★★★)
- Ollama (LLM) (★★★★★)
- Hugging Face (★★★★★)

Data visualization and exploration:

- R (shiny, ggplot) (★★★★★)
- Python (matplotlib) (★★★★★)
- Gephi (★★★★★)

Languages:

- English (★★★★★)
- Spanish (native) (★★★★★)
- Dutch (learning) (★★★★★)

Sofia Gil-Clavel, Ph.D.

Actuarial, Computer, and Computational Social Scientist

I use Digital Data, Statistics, and Machine Learning to study Social Media consequences on Socio-Ecological systems.

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Education Working Experience

● **Post Doctoral Fellow Human Adaptation to Climate Change**
[Jul.2022– current] *TU Delft. Delft, Netherlands.*

● **PhD Fellow Computational Social Science**
[Sep.2018–Jun.2022] *Max Planck Institute for Demographic Research. Rostock, Germany. Faculty of Spatial Sciences. University of Groningen. Groningen, Netherlands.*

● **Head of the Demographic Analysis Department**
[Aug.2017–Aug.2018] *National Population Council (CONAPO). Mexico City, Mexico.*

● **Computer Science (MSc)**
[Aug.2015–Aug.2017] *Center of Mathematics Research (CIMAT). Guanajuato, Mexico.*

● **Research Analyst**
[Aug.2014–Aug.2015] *Center of Demographic, Urban, and Environmental Studies (CEDUA) of el Colegio de México (COLMEX). Mexico City, Mexico.*

● **Student Assistant: Teacher in BSc degree**
[Aug.2013–Aug.2015] *Faculty of Science, Universidad Nacional Autónoma de México (UNAM). Mexico City, Mexico.*

● **Actuarial Science (BSc)**
[Aug.2009–Aug.2014] *National Autonomous University of Mexico (UNAM). Mexico city, Mexico.*

● **Mathematics Teacher**
[Aug.2007–Jul.2008] *National Mathematics College (CONAMAT). Mexico city, Mexico.*