



### My interests are:

- Data Science
- Statistics
- NLP/LLM
- Computer Science

I love coding, looking for patterns, and visualizing data.

## General Skills

### Programming

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

### AI Ecosystem

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

### Data visualization and exploration

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

### Languages

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

# Dr. Sofia Gil-Clavel

Actuarial, Computer, and Computational Social Scientist

**Strengths:** I am an independent and long-term-oriented researcher with the background and experience to solve social/behavioral problems through novel and creative solutions.

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[SofiaG1](#) [@sof14g1@bsky.social](#) [Google Scholar](#)



Education



Working Experience

- [2022– current] **Post Doctoral Fellow.** *TU Delft. Delft, Netherlands.*  
**I developed an active learning methodology to extract, visualize, and analyze text.** I developed and taught a general workshop on how to use Application Programming Interfaces to retrieve data.
- [2018 – 2022] **PhD Fellow Computational Social Science.** *Rostock, Germany, and Groningen, Netherlands.*  
**I gave and organized a workshop on how to use Application Programming Interfaces to retrieve data from Facebook and Twitter. I published three first-author articles and collaborated in 6 other publications.** My work was selected for presentation at more than ten conferences.
- [2017 – 2018] **Head of the Demographic Analysis Department.** *Mexico City, Mexico.*  
**I programmed and uploaded (Linux servers) the first version (2018) of the shiny app to visualize conciliation and projected Mexican data ([link](#)).** I also developed the project “Estimation of the infant mortality rate in Mexico in 2015 at municipal level using numerical techniques.”
- [2015 – 2017] **Computer Science (MSc).** *Guanajuato, Mexico.*
- [2014 – 2015] **Research Analyst.** *Mexico City, Mexico.*  
**I programmed the R package “DemosR: Package for the Stochastic Population Forecast” (COLMEX internal use).** Analysis and handling of big data for demographic research.
- [2013 – 2015] **Student Assistant.** *Mexico City, Mexico.*  
**I helped prepare the teaching material and taught and graded three courses with around 50 students per course.**
- [2009 – 2014] **Actuarial Science (BSc).** *Mexico City, Mexico.*
- [2007 – 2008] **Mathematics Teacher.** *Mexico City, Mexico.*  
**I taught fundamental mathematics (arithmetic, geometry, algebra, and calculus) to people of different ages and educational levels.**