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.

🌐 sofiag1l.github.io   ✉ B.S.GilClavel@vu.nl
⌨ SofiaG1l   g Google Scholar   iD ORCID

● **Education**   ● **Working Experience**

● **[2024– current] Researcher, Research Engineer, and Lab Manager** at the Societal Analytics Lab. *VU Amsterdam, NL.*
I facilitate the **creation of advanced computational resources**. As lab manager, **I run the lab and its resources** together with the lab directors

● **[2022– 2024] Post Doctoral Fellow.** *TU Delft. Delft, NL.*
I developed an active learning methodology to extract, visualize, and analyze text.

● **[2018 – 2022] PhD Fellow Computational Social Science.** *Rostock, DE, and Groningen, NL.*
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, MX.
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, MX.

● **[2014 – 2015] Research Analyst**. Mexico City, MX.
I programmed the **R package** "DemosR: Package for the Stochastic Population Forecast" (COLMEX internal use).

● **[2013 – 2015] Student Assistant.** Mexico City, MX.
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, MX.

● **[2007 – 2008] Mathematics Teacher.** Mexico City, Mexico.
I taught fundamental mathematics to people of different ages.