CURRICULUM VITAE October 2018

Beatriz Sofía Gil Clavel

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EDUCATION

Max Planck Institute for Demographic Research, Germany

Ph.D. Student, Digital and Computational Demography Laboratory. Supervisor: Emilio Zagheni (MPIDR)

2018-.

Center of Mathematics Research (CIMAT), Mexico

Master of Science with a Specialization on Computing and Industrial Mathematics.

Supervisors: Dr. Johan Van Horebeek, CIMAT, and Dr. Rafael Garduño Rivera. CIDE.

2015-2017

National Autonomous University of Mexico (UNAM), Mexico

Bachelor of Science in Actuarial Science. Supervisor: Dr. Víctor Manuel García Guerrero, COLMEX.

2009-2014

WORK EXPERIENCE

National Population Council (CONAPO)

Head of the Demographic Analysis Department.

Activities to develop: Creation of computational tools for visualizing and analyzing Mexican conciliation data (1950-2015) and the Mexican projected population (2016-2050). Demographic data analysis of population, deaths, births, and migration.

2017-2018

Center of Demographic, Urban, and Environmental Studies (CEDUA) of COLMEX

Research support.

Activities to develop: Development of the R package "DemosR: Package for the Stochastic Population Forecast". Analysis and handling of big data for demographic research.

2014-2015

¹ COLMEX internal use.

PRESENTATIONS AT CONFERENCES

• "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.

TRAINING AND COURSES

- Using the GWDG Scientific Compute Clusters An Introduction. October 2018.
- Parallel Programming with MPI (Including MPI for Pyhton). October 2018.
- Attendance at the "France-Mexico School on Data-Analysis" organized by the French Embassy in Mexico and the Mathematic Institute of UNAM. December 2017.
- Social and Economic Networks: Models and Analysis by Stanford University on Coursera. Certificate earned on May 15 2017.
- Attendance at the "France-Mexico Meeting on Data Analysis" organized by the French Embassy in Mexico and the Mathematic Institute of UNAM. November 2016.
- Attendance at the "Summer Workshop on Research Methods for Population and Territory 2014" at COLMEX.

SKILLS

- Programming: C++, VBA, Python, R
- Data visualization and exploration: R (shiny, ggplot, plotly), Gephi.
- Text processing: LATEX

LANGUAGES

Spanish (native), **English** (advanced), **German** (intermediate)