

Felipe Santos-Marquez

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EDUCATION

Nagoya University

M.S. in Development Economics, GPA: 90/100

Nagoya, Aichi, Japan

2019–2021

- Thesis: “Achieving Peace and the SDGs in Colombia: Municipal Convergence, Crime, and the Role of Conditional Cash Transfers”

The National University of Colombia

B.S. in Physics, GPA: 4.0/5.0

Bogota, Colombia

2007–2012

EXPERIENCE

Nagoya University

Research Assistant at the QuaRCS lab

Nagoya, Aichi, Japan

04/2020- present

- Creation and Maintenance of databases
- Creating shapefiles and data-sets of income and well-being related variables across the world, and Sustainable Development Goals data for Bolivia

Nagoya University

Academic Tutor at the Graduate School of International Development

Nagoya, Aichi, Japan

09/2019- present

- Tutoring of research, Master’s and PhD students
- Helping students to organize research data and to analyze it using a variety of econometric methods and software

National University of Colombia

Mathematics (Topology and Analysis) tutor at the School of Mathematics, Faculty of Science

Bogota, Colombia

01/2008- 07/2008

- Tutoring of physics undergraduate students
- Preparing and facilitating tutoring workshops and academic support sessions for small groups of students

TEACHING

- **Teaching Assistant** at Nagoya University fall 2020
GSID Open Webinar Series and Spanish 4
- **English Teacher** at Alive English School, Nagoya city, Japan 04/2017 - present
Preschool, elementary and secondary classes

PUBLICATIONS

- [1] **F. Santos-Marquez**, A. B. Gunawan, and C. Mendez, “Regional income disparities, distributional convergence, and spatial effects: Evidence from Indonesian regions 2010–2017”, *GeoJournal*, pp. 1–19, 2021, Available at <https://doi.org/10.1007/s10708-021-10377-7>.
- [2] C. Mendez and **F. Santos-Marquez**, “Regional convergence and spatial dependence across subnational regions of asean: Evidence from satellite nighttime light data”, *Regional Science Policy & Practice*, 2020, Available at <https://doi.org/10.1111/rsp3.12335>.

- [3] **F. Santos-Marquez** and C. Mendez, “Regional convergence, spatial scale, and spatial dependence: Evidence from homicides and personal injuries in colombia 2010-2018”, *Regional Science Policy & Practice*, 2020, Available at <https://doi.org/10.1111/rsp3.12356>.

WORKING PAPERS

1. Dominguez, Alvaro and Mendez, Carlos and **Santos-Marquez, Felipe**, Sectoral Productivity Convergence, Input-Output Structure and Network Communities in Japan (August 23, 2020). Available at SSRN: <https://ssrn.com/abstract=3679429> or <http://dx.doi.org/10.2139/ssrn.3679429>
2. **F. Santos-Marquez** “Spatial Beta-Convergence Forecasting Models: Evidence from Municipal Homicide Rates in Colombia” 2020 //jsla-2020.netlify.app/

CONFERENCE PRESENTATIONS

- Applied Regional Science Conference November–2019
Saga University, Saga, Japan
- Bolivian Conference on Development Economics August–2020
La Paz, Bolivia (online conference)
- 57th Conference of the Japan Society of Social Science on Latin America November–2020
Japan (online conference)

EXTRACURRICULAR AND ACADEMIC ACTIVITIES

- Data@ANZ ANZ virtual experience Program August–2020
Completed two practical task modules in Exploratory Data Analysis Predictive Analytics.
- DataCamp courses- completed over 10 online courses in: 2019 –2020

Introduction to Machine Learning.
Multiple and Logistic Regressions in R.
Cluster Analysis in R
Supervised Learning in R: Regression
Supervised Learning in R: Classification
Unsupervised Learning in R
Spatial Analysis with sf and raster in R.
Visualizing Geospatial Data in R
Forecasting in R
Working with Web Data in R

SKILLS

- **Software & code:** GitHub, Geoda, Matlab and C++
- **Statistical software:** R, Python and Stata

STATISTICAL AND ECONOMETRIC METHODS ACTIVELY USED ON RESEARCH

- Exploratory Data Analysis R –Python –Geoda
- Exploratory Spatial Data Analysis R –Python –Geoda

- Linear, Logistic, Spatial and Spatially Weighted Regressions R
- Spatial Visualizations & Geospatial Data Manipulation R - Python
- Synthetic Control Methods R
- Bayesian Model Averaging R
- Hierarchical, k-means, max-p and other Clustering Algorithms R -Geoda
- Exponential Smoothing, ARIMA models and other Forecasting Methods R
- Time Series Analysis: Club Convergence Algorithms R- Stata
- Long-run Filtering and Spatial Filtering R

CODING TUTORIALS, CODE SAMPLES & DATASETS

- Local Moran's I and Spatial Scales (using R and tmap) rpubs.com/FelipeSantos/LISA_tmap_geoda
- Using the missForest Package (inputting NA data using random forests) rpubs.com/FelipeSantos/na_missforest
- Global Economic Convergence Using the Tidyverse rstudio.cloud/project/650923
- Socio-Economic convergence in Colombia Using the REAT package rstudio.cloud/project/352478t
- Slides and Presentations for conferences - created in R (xargian package) github.com/jfsantosm/BCDE2020-slides
- Private website (generated using Github, R and Netlify) github.com/jfsantosm/academic-felipe-august2020
felipe-santos.rbind.io/
- Data-set of municipal crime in Colombia and exploratory data Analysis in R
github.com/jfsantosm/Regional-Crime-Data-Colombia

LANGUAGES

- **Spanish:** Native speaker level
- **English:** High proficiency level
- **Japanese:** Intermediate level