

Sergio Hernan Garrido Mejia

(+972)559592831
sh.garrido10@uniandes.edu.co

EDUCATION

Economics M.Sc. January 2017 - July 2018
Universidad de los Andes, Bogota, Colombia
Economics B.Sc. (Top 5% of class) July 2012 - December 2016
Universidad de los Andes, Bogota, Colombia
Exchange program July 2014 - December 2014
University of Bristol, Bristol, UK
I took 7 subjects, 2 from the mathematics faculty and 5 from the economics faculty including Real Analysis with Professor Thomas Jordan
Exchange program July 2015 - December 2015
University of Melbourne, Melbourne, Australia
Notable courses: Stochastic Modeling with Professor Nathan Ross and Real Estate Finance with Professor Gregory Schwann

RELATED EXPERIENCE

Research Assistant August 2018 - Current
Transport modeling (Danmarks Tekniske Universitet DTU)
I work at the Machine Learning for Mobility group, we are currently working on the development of deep generative models to synthesize population.

- Python programming of advanced spatial and temporal Machine Learning methodologies with transportation system applications.

Visiting Research Fellow August 2017 - June 2018
Department of economics (Hebrew University of Jerusalem)
I worked as a research assistant under the supervision of Professor David Genesove. We work on industrial organization and urban economics problems.

- Creating spatial databases and writing programs in Python.
- Performing statistical analysis on the created databases.
- Notable audited the courses (MSc. level): Advanced applications of Machine Learning, Generalized Linear Models (GLM), Introduction to Artificial Intelligence and Urban Economics.

Research Assistant January 2017 - June 2017
Centro de Estudios de Desarrollo (CEDE, Universidad de los Andes)
CEDE is the leading think tank in Colombia for development economic research. Some of my duties were:

- Performing econometric analysis of databases using R and STATA.
- Designing experiments and surveys for future research.
- Reviewing relevant literature.

Research Assistant July 2016 - December 2016
Banco de la Republica (Central Bank of Colombia)
I worked at the department of payment systems and bank operations as a research assistant for Carlos Arango. Several documents were made for specialized Journals. Some of my duties were:

- Studying the Colombian payment systems.
- Performing econometric analysis of databases using R and STATA.
- Designing experiments for future research.

- Reviewing literature on monetary search-based models and empirical money demand documents.

Research Assistant

January 2015 - July 2015

Department of National Planning of Colombia (DNP)

I worked in a database anonymization project for the office of public policy evaluation and monitoring. I used the Statistical Disclosure Control methodologies (SDC). Some of my duties were:

- Reviewing technical statistical literature on database anonymization.
- Managing and processing databases.
- Performing econometric analysis of databases using R and STATA.

PUBLICATIONS *Working Papers*

- Arango, C. Suarez, N. **Garrido, S.** (2017) "Como pagan los colombianos y por que?" Borradores de economia. Banco de la Republica. April 2017.
- Arango, C. A.; Suarez, Nicolas & **Garrido, Sergio.** (2016). Como pagan los colombianos y por que? Coyuntura Economica, 46(2), diciembre, pp. 141-167.

Posters

- **Garrido, S.** (2018) "Predicting crime in Bogota using Kernel Warping". Poster session presented at the Colombian conference of industrial and applied mathematics, Bogota, Colombia.

ACADEMIC EXPERIENCE

Tutorial Professor:

Introductory Macroeconomics

January 2017 - June 2017

Intermediate Econometrics

January 2017 - June 2017

Research groups:

CESED (Security and Drugs Research Center)

January 2015 - July 2015

OTHER ACTIVITIES

University Swimming team

January 2016 - June 2017

University Chess team

January 2013 - June 2017

Volunteer for "Fundacion con las manos" (taught maths to kids in one of the most vulnerable neighbors in Bogota)

January 2015 - June 2015

GRANTS AND SCHOLARSHIPS

Ministry of foreign affairs, Israel:

July 2017 - July 2018

Scholarship from the ministry of foreign affairs of Israel to pursue a year of research at a University in Israel

TECHNICAL SKILLS

Python (Sklearn, Tensorflow, Keras, (Geo)Pandas, PyMC3, numpy), R, STATA, SQL, MATLAB/Octave

LANGUAGES

Spanish Native

English Fluent

French Conversational

Hebrew Conversational