Sergio Hernan Garrido Mejia

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EDUCATION

Machine Learning for transportation Ph.D.

January 2019 - current

Universidad de los Andes, Bogota, Colombia

January 2017 - July 2018

 $Economics\ M.Sc.$

Universidad de los Andes, Bogota, Colombia

July 2012 - December 2016

Economics B.Sc. (Top 5% of class)

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 - December 2018

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 Tutori	al P.	rofessor:
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EXPERIENCE 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 University Swimming team January 2016 - June 2017

ACTIVITIES 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 Ministry of foreign affairs, Israel: July 2017 - July 2018

SCHOLARSHIPS Scholarship from the ministry of foreign affairs of Israel to pursue a year of research

at a University in Israel

TECHNICAL Python (Sklearn, Tensorflow, Keras, (Geo)Pandas, PyMC3, numpy), R, STATA,

SKILLS SQL, MATLAB/Octave

LANGUAGES Spanish Native

English Fluent

French Conversational Hebrew Conversational