

# Manuel Martinez

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## PERSONAL DETAILS

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**GitHub** [github.com/manmartgarc](https://github.com/manmartgarc)

## EDUCATION

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**M.S. Computational Analysis and Public Policy (MSCAPP)** 2021 - Expected June 2023  
*Harris School of Public Policy, University of Chicago*

**Visiting Student** 2020 - 2021  
*Tobin Center for Economic Policy, Yale University*  
Courses taken:

- Computational Tools for Data Science
- Data Structures and Programming Techniques
- Natural Language Processing

**B.A. Economics** 2014 - 2016  
*Southern Connecticut State University*

- Honors: Magna Cum Laude
- Minor: Sociology

**A.A. Liberal Arts & Sciences** 2012 - 2014  
*Gateway Community College*

## WORK EXPERIENCE

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**Research Analyst** Jan 2020-Present  
*Yale University, Full-time — New Haven, CT*  
Research the design and evaluation of changes to centralized school choice systems in order to learn about ways to increase equity in transparency. Additionally evaluated the effect of these changes in relationship to academic achievement, school segregation and school welfare using a combination of detailed administrative data, surveys and economic modeling.

**Data Scientist — Data Engineer** Apr 2019-Present  
*ConsiliumBots, Part-time — New Haven, CT*

Designed, implemented and maintained software ranging from REST APIs to web applications that help families navigate complicated educational processes such as school search or subsidy search. Additionally implemented ETL pipelines to support and maintain in-house projects as well as consulting projects for governments. Performed econometric and public policy analysis for different projects within the context of educational market design.

### **Research Analyst**

Oct 2017-Dec 2019

*National Bureau of Economic Research, Full-time — New Haven, CT*

Conducted applied microeconomics research for NBER's Faculty Research Fellow [Christopher Neilson](#), whose research focuses on the study of public policy, design and regulation in education markets. Worked closely with local government in the implementation of a new (to the district) matching algorithm for New Haven's school choice program.

### **Research Associate**

Jun 2018-Feb 2019

*Abdul Latif Jameel Poverty Action Lab (J-PAL), Full-time — Santo Domingo, Dominican Republic*

Conducted research on two *separate* topics. Implemented multiple RCTs, both on the effects of families' beliefs on education markets, and on the reduction of free-riding in public goods through cost-effective behavioral nudges.

### **Research Associate**

May 2017-Oct 2017

*Princeton University, Full-time — New Haven, CT*

Conducted empirical research on educational market design. Implemented the [Heterogeneous Beliefs and School Choice Mechanisms](#) field survey in New Haven, CT. The project involved a household survey aimed at eliciting and capturing the beliefs of families with respect New Haven's school choice program.

### **Business Manager**

Aug 2016-May 2017

*Arakelian Rugs, Full-time — New Haven, CT*

Brought a 100-year-old brick-and-mortar retail store into the 21st century by successfully implementing modern inventory, customer, and billing tracking. Leveraged data swamps to improve business practices. This led to the implementation of several *complementary* services, which coupled with better customer retention strategies led to an improvement in cash-flow management in an industry with high ticket items.

### **Tutor**

Oct 2016-Dec 2016

*Southern Connecticut State University, Part-time — New Haven, CT*

Tutored struggling students in the following courses: Intro to Microeconomics, Intro to Macroeconomics, Intermediate Microeconomic Analysis, Intermediate Macroeconomic Analysis, Statistics and Introduction to Computers and Applications.

### **Intern**

May 2016-Aug-2016

*City of New Haven - Economic Development Department, Full-time — New Haven, CT*

Assembled a lengthy document that is the City's main report to bond-rating agencies, which is then used by these (supposedly) to calculate the City's municipal bond rates. The document highlights the main economic developments of the City, which requires developing and maintaining close relationships with local businesses

## SKILLS

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<i>Languages</i>	Spanish (native) English (fluent)
<i>Programming</i>	<b>Proficient:</b> Python (+ assorted data analysis packages), STATA <b>Familiar:</b> C Programming Language, R, SQL, Bash, PowerShell, $\LaTeX$ <b>Novice:</b> HTML, CSS, Go, Julia, JavaScript
<i>Software</i>	Git, UNIX, Airflow, Spark, AWS, GCP, Docker

## CERTIFICATIONS

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<i>MOOCs</i>	<ul style="list-style-type: none"><li>- Python 3 Programming Specialization — <a href="#">University of Michigan</a></li><li>- Maths For Machine Learning Specialization — <a href="#">Imperial College London</a></li><li>- Data Science with Python Career Track — <a href="#">DataCamp</a></li><li>- Python Programmer Career Track — <a href="#">DataCamp</a></li><li>- Data Analyst with Python Career Track — <a href="#">DataCamp</a></li><li>- Applied Data Science with Python Specialization — <a href="#">University of Michigan</a></li><li>- Python For Everybody Specialization — <a href="#">University of Michigan</a></li></ul>
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