# Charlie Carter

[Sean.Ch.Carter@gmail.com](mailto:Sean.Ch.Carter@gmail.com) · 727-348-7852 · seancc.github.io

**Professional Summary:**

*Research & data analyst passionate about using analytics to answer pressing questions and build data-driven deliverables. Experienced utilizing varied data sources and business intelligence tools to build research datasets, visualize insights and conduct analyses for informing decision-making.*

**Education:**

**University of South Florida**, Graduated 2019

Master of Arts, Mathematics & Statistics

**Thesis Topic:** *Fractional Random Weighted Bootstrapping for Classiﬁcation on Imbalanced Data with Ensemble Decision Tree Methods*

**University of South Florida,** Graduated 2017

Bachelor of Science, Cell and Molecular Biology with a minor in Mathematics

**Professional Experience:**

**Sagicor Life Insurance** *Consulting Actuarial Technician*

September 2021 – Present

* Expanding automated experience study suite by building out mortality studies in MS SQL

**Luminosity** *Policy Research Analyst*

November 2019 – September 2021

* Designed, built, and maintained dashboards in Tableau and Plotly Dash for tracking and reporting research, performance and outcome measures to the NYC Mayor’s Office of Criminal Justice and other justice system clients.
* Built an automated system in SQL, Amazon Redshift and Snaplogic for cleaning and transforming data from multiple city agencies to generate KPIs for the New York City justice system.
* Carried out research requests and reviews to inform policy and communications for clients, shareholders, and researchers, including generating summary statistics, aggregate data, visualizations, and writing reports.

**Crime Lab New York** *Data Science Intern*

July 2019 - September 2019

* Built ensemble classification models using Python & Scikit-Learn for predicting domestic violence revictimization as an aid for allocating prosecutorial resources
* Contributed to an internal Python toolset for automating feature generation for machine learning pipelines
* Carried out data analyses and visualizations using R and RMarkdown

**Sagicor Life Insurance** *Actuarial Intern*

March 2019 – July 2019

* Built an automated system for carrying out regularly conducted actuarial lapse & experience studies using Microsoft SQL & Stored Procedures
* Automated numerous miscellaneous actuarial procedures using Excel, Visual Basic, and Python

**Other Experience:**

**Brazilian Jiu Jitsu Club, USF** *Vice President* 2014-2019

* Coordinated training sessions and tournaments for the USF Brazilian Jiu Jitsu sports club. Responsibilities ranged from managing safety forms and equipment to budgeting for tournament fees and training equipment.

**Recipient of NSF I-Corps Grant** 2019

* Grant awarded in Spring 2019 to develop a business collaboration in biostatistics with Dr. Ming Ji of USF College of Nursing

**Brian Space Research Group, USF** *Student Research* 2015-2017

* Conducted simulation studies on chemical systems using domain specific software as well as Python and C++
* Presented *“A Hybrid Simulation Method in LAMMPS with Application to MOF-5”* at 14th Annual Raymond N. Castle Conference

**Additional Skills & Proficiencies:**

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| --- | --- | --- | --- | --- |
| Regression | Classification | Pandas | Scikit-Learn | Tableau |
| Power BI | Plotly Dash | R | Python | Javascript |
| Redshift | PostgreSQL | MSSQL | Microsoft Office | Microsoft Excel |