FAUSTO LOPEZ

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SKILLS

- R
- Python
- SQL
- Shiny
- R Markdown
- Jupyter
- Leaflet
- Tableau
- Tabix
- ClickHouse
- Postgres
- Spark
- Linux
- AWS
- Automation
- Machine Learning

WORK EXPERIENCE

Taxi & Limousine Commission, City of New York   New York, NY
Data & Analytics Manager, Policy & External Affairs Department   *July 2016 - Present*
- **Analytics:** Define KPIs and automate R/Python/SQL scripts to produce internal and public-facing metrics.
- **Data Engineering:** Design and built analytics database using R fst package by leveraging a MapReduce framework to run scripting jobs in parallel. This led to a 400% increasing in reporting speeds.
- **Data Warehousing:** Create schema & design for, and management of, Postgres and ClickHouse databases leading to a 500% increase in reporting speeds.
- **Data Visualization:** Build various rapid prototype tools using R-Shiny and Tableau for public and external use, including a driver income calculator which is utilized by over 180,000 for-hire drivers in New York City.
- **Policy Design:** Spearhead landmark driver income study, which led to the first national vehicle cap on ridesharing companies, as well as the first national requirements on minimum driver pay for over 180,000 drivers.
- **Machine Learning:** Applied regression and random forest models to predict taxi volume and k-means clustering to improve 311 complaint categories for taxis.
- **Content Discovery:** Launched agency-wide analytics blog showcasing innovative industry visualizations and insights.
- **Leadership:** Select and lead a team of four data analysts to provide support for various data and policy initiatives.

Urban Upbound   Long Island City, NY
Data & Evaluation Manager   *June 2015 - June 2016*
- **Data Warehousing:** Oversaw and managed six databases to track outcomes and reporting to assist low-income New Yorkers in gaining access to banking services.
- **Analytics:** Developed evaluation protocols and analytical tools for testing program models.
- **Statistics:** Aided with studies on financial stress as a predictor of counseling outcomes.
- **Reporting:** Provided quantitative and qualitative assistance for the Healthy Aging Study, a qualitative report recommending resource upgrades for senior citizens in Far Rockaway.

Urban Upbound   Long Island City, NY
Monitoring & Evaluation Assistant   *July 2014 - May 2015*
- **Analytics:** Designed and administered surveys on financial counseling outcomes.
- **Evaluation:** Developed evaluation protocols for testing efficacy of interventions for all programs.

EDUCATION

Macaulay Honors College at CUNY-Hunter   New York, NY
Master of Science: Applied Social Research   *May 2014*

Macaulay Honor College at CUNY-Hunter   New York, NY
Bachelor of Arts: Sociology   *May 2013*

PUBLICATIONS

- An Earnings Standard for New York City's App-Based Drivers: Economic Analysis and Policy Assessment, *July 2018.*
- Healthy Aging in Far Rockaway: Findings from the Urban Upbound Healthy Aging Initiative, *April 2015.*
- Hybrid Strategies: Allocating Involvement in the Digital Age, *Society for the Study of Symbolic Interaction*, *June 2015.*