# Miguel Rivera-Lanas

Data scientist/engineer with 4 years experience in investment management. Interested in research roles focusing on ML/AI bias and computational social science. Primarily focused on empirical methods to study quantitative and social effects of disinformation propagation and content moderation systems.

## EXPERIENCE

### *Data Scientist / Engineer* — **Point72,** NYC, NY
**September 2019 - Present**

- Sept 2019 to Aug. 2020, I was part of a research group, investigating novel data sets, including credit-card transaction data and others, for evaluating trends and statistical relationships to company fundamental KPIs.
- In Sept. 2020, I joined an investment team with 8 sector analysts, where I manage all data science and engineering projects.
- Implement statistical descriptive modeling, preprocessing, feature engineering, and forecasting over a diverse range of data sets related to oil well production, retail consumer trends, and other sectors.
- Build systematic strategy backtesting and risk analysis frameworks
- Build scalable and robust cloud based event-driven ETL architecture for delivering continuous reporting of data products

### *Research Associate, Fixed Income* — **AllianceBernstein,** NYC, NY
**June 2016 - August 2016, June 2017 - August 2019**

- Rotations as research associate for macro economics, quantitative research, and portfolio strategy technology teams
- Developed and maintained ETL, preprocessing, and reporting for novel liquidity signals from live order-book data, utilized by traders to better assess supply and demand conditions for specific parts of the market.

## VOLUNTEERING

### *Volunteer Developer* — **Statisticians without Borders (SWB)**
**November 2020 - March 2021**

- Worked as a data engineer over 15 weeks as part of a SWB volunteer team on behalf of the Indian non-profit, India Excellence Forum (IEF)
- Our team achieved our objective to develop a web dashboard for evaluating COVID-19 related epidemiological model results to assist municipal health organizations in India.

## EDUCATION

**University of Pennsylvania,** Philadelphia, PA — *B.A., Cum Laude*
**August 2013 - May 2017**

**Major**: Economics, **Minors(s)**: Statistics, International Relations

**Clubs:**
- **Check One**: *Board Member.* Student organization providing a discussion space for personal and societal experiences involving race and mixed-heritage backgrounds.
- **Penn Journal of Economics:** *Editorial Committee.* (PJE) is a semi-annual, peer-reviewed publication of honors theses and other academic projects for undergraduates and faculty.

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## CORE COMPETENCIES
**Scripting:** Python, Scala, R
**Development:** Git, Airflow, Docker
**Cloud:** AWS (S3, EC2, RDS, Lambda, SNS, Glue Jobs)
**Databases:** PostgresSQL, MongoDB
**ML:** Sklearn, Tensorflow, SpaCy
**Data Manipulation:** Pandas, Numpy, SciPy, BeautifulSoup, Spark, Tidyverse
**Web Dashboard:** Plotly Dash

## INTERESTS
Computational Social Science,
Misinformation,
Fairness and Bias in ML/AI

## PERSONAL PROJECTS
**Visit** www.rivera-lanasm.com/post/
● **Logic/Probability Puzzles:**
- Logic and math puzzles solved with analytical and probabilistic methods. Solutions coded primarily in **Scala.**

## LANGUAGES
**English** (Fluent), **Spanish** (Fluent), **French** (Working Proficiency)