

# MOORISSA TJOKRO

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## OBJECTIVE

Entrepreneurial data scientist with strong analytical skills and passion in leveraging big data in fast-paced industry environments. Looking for 2017 summer internship.

## EDUCATION

### COLUMBIA UNIVERSITY, New York, NY

*Expected Dec '17*

*Master of Science in Data Science*

Coursework : Algorithms for Data Science, Data Visualization, Computational Finance, IEOR Technology Management

### GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA

*May '14*

*Bachelor of Science in Industrial Engineering; Statistics and Quality*

Summa Cum Laude, 3.8/4.0

Awards : Helen Grenga Nominee for Georgia Tech Best All-Around Female Engineers 2014 (Top 15% Graduating Class), President's Undergraduate Research Award 2014, Rockwell Automation Scholarship 2012-2014, Faculty Honors 2012

Studied abroad in summer '13 at Georgia Tech Lorraine, France, and organized group logistics to 10 countries, 30 cities across Europe.

## WORK EXPERIENCE

### NASA - SOCIOECONOMIC DATA AND APPLICATIONS CENTER (SEDAC), Data Science Intern

*Sep '16 - present*

- Assist the Sustainable Development Solutions Network team in analyzing metrics of worldwide population data addressing key global issues. Create a mapping tool for inequality distribution by combining indicators of human wellbeing and environmental sustainability.

### TARGET MARKET, Data Analyst

*July '14 - June '16*

- Led a team of four analysts in managing data warehouse for international charities and research centers, creating program optimization and decision support tools, and building statistical campaign models using industry and government large datasets.
- Collaborated with the Senior VP of Analytics & Partner and manager in integrating strategy execution, methodologies, risk and analytics.
- Created interactive data visualizations and business intelligence dashboards using object-oriented programming and server data tools.

### UNITED NATIONS WORLD FOOD PROGRAMME, Quantitative Research Intern

*Aug '13 - May '14*

- Developed a centralized hub systems model for the Specialized Nutritious Foods in Zambia, a project collaboration with the Georgia Tech Health & Humanitarian Systems Center, to decrease malnutrition rates and commodity shortages up to 30% across sub-Saharan regions.
- Worked closely with the Spatial Risk Calendar (SPARC) team at WFP to parameterize multivariate spatial models and draft a recommendation proposal, which resulted in model adoption by the Zambian Ministry of Health.

### HEIDELBERG USA, Logistics and Modeling Engineer

*Aug '13 - May '14*

- Led a team of 8 engineers in developing graphical user interfaces for inventory optimization, yielding an annual savings of \$1.02M, 37% cost reduction, and 30% increase in the profit margin of the nationwide consumables business.
- Performed simulations, time series analysis, forecasting, and stochastic mixed integer programming to optimize distribution channels.

### GEORGIA INSTITUTE OF TECHNOLOGY, Computer Science and Applied Statistics Teaching Assistant

*Dec '12 - May '14*

- Led weekly recitations, developed projects, and tutored students for Data Manipulation & Database Systems course (~250 students).
- Coordinated with 7 TAs to organize review sessions, grade and proctor exams for Applied Statistics course (~400 students).

## LEADERSHIP & SERVICE

### COLUMBIA DATA SCIENCE SOCIETY, Executive Board Member

*Sep '16 - present*

- Host the largest Columbia Hackathon and organize educational and professional data science workshops at Columbia and around NYC.

### UNITED NATIONS ASSOCIATION OF ATLANTA, Vice President of Membership and Data Operations

*Nov '14 - Apr '16*

- Advised Board of Directors in drafting vision for membership growth and retention strategies, resulting in a 220% increase in new membership rates in the past 12 months. Organized membership database and conduct data analysis for strategic decision making.
- Founded the Young Professionals subchapter and lead Hunger & Poverty Committee to promote poverty eradication throughout Atlanta

### UNICEF CAMPUS INITIATIVE, Founder and President

*Aug '11 - June '12*

- Led a team of 50+ students in raising \$18,000 for school constructions in Cambodia and collected 13,000 books to distribute across 130 public schools worldwide. Received the college's 2012 Club of the Year award among 300+ student chapters.

## BIG DATA PROJECTS

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|--|---|
| φ 2016 Presidential Election - Community Voting Statistical Analysis | φ Nationwide Direct Mail Optimization & A/B Testing |
| φ U.S. SAT Scores Regression Modeling & Time-Series Forecasting      | φ Smart Refrigerator Business Analytics             |
| φ MIT Game Theory - Littlefield Technologies Capacity Management     | φ Parking Systems Object-Oriented User Interface    |

## EXPERTISE

LANGUAGE : Python, JavaScript, HTML, CSS, D3/SVG, SQL, XML

STATISTICAL SOFTWARE : SAS, R, Anaconda (Numpy, Scipy, Pandas, and IPython), GIS/ArcGIS, JMP, Minitab

ANALYTICAL CONCEPTS : Predictive Analytics, Algorithms, Visualization, Optimization, Machine Learning, Exploratory Data Mining

CERTIFICATIONS : Six Sigma Black Belt, Leadership Education & Development Certification, Certificate in U.N. Studies (2015)