

# Nan (Miya) WANG

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**Programming Language:** Python, R, SQL

**Database:** Oracle, IBM DB2, SQLite, MySQL, HDFS, Amazon S3;

**Software & Framework:** Spark, MapReduce, Azure, Databricks, Tableau, Spotfire, Weka, SPSS Modeler, SAS;

## EXPERIENCE

### Fordham University, Dr. Katsamakos (Area Chair)

01/2016 – present

Research Assistant (*Data Science*)

New York, NY

- Developed python programs to automate data crawling from web sources;
- Loaded unstructured data into Hadoop File System (HDFS) and created ETL jobs;
- Implemented text processing and topic modeling (latent Dirichlet allocation) with Spark API;
- Processed and analyzed image data through convolutional neural network in Caffe framework;
- Prepared tutorials for Business Intelligence (Tableau) and Cloud Computing (Machine Learning in Azure) workshops;

### Converseon

08/2016 - Present

Intern, Data Analyst (*Digital Consultancy*)

New York, NY

- Developed advanced SQL queries to retrieve market data with 10% higher relevancy;
- Integrated, validated and cleansed data from various sources for ad-hoc analysis;
- Conducted sentiment analysis on proprietary big data analysis software;
- Partnered with clients to generate reports/dashboards with deep-dive insights;

### AXA, SL Financial Group

2015

Financial Analyst (*Financial Modeling*)

Hong Kong, China

- Performed equity research to monitor new/ongoing developments in real estate/financial industries in different markets;
- Prepared, maintained and distributed ad-hoc reports for different levels of management;
- Conducted analysis of portfolio and performance attribution (Mean-variance and MC simulation);
- **Top Performer Award**; “2<sup>nd</sup> Runner Up” as a team. (Total 20 teams).

### Pacific Northwest National Laboratory

2014

Business Contracts (*Database*)

Richland, WA

- Retrieved, combined and cleansed data from a vast range of proprietary/government databases/applications/systems;
- Analyzed large amount of regulatory documents/data to assist management of multi-million dollar contracts portfolio;
- Partnered with offsite clients to determine contract performance, delivery schedules, and estimates of budgets;

## PROJECT

### Fordham University

Parallel Data Processing

- Loaded option data into S3 and built predictive models(Nearest Neighbors/Support Vector Machine) through Spark API;
- Implemented Newton/Muller-Bisection/Harley’s method for option pricing models with multi-threading techniques;
- Processed and visualized gigabytes of high-frequency trading data;

### BlueOptima

Social Network Analysis

- Cleaned and transformed data (over 500,000 developers’ coding commitment) collected from Agile tools (JIRA and Git);
- Conducted social network analysis and community detection to evaluate developers’ productivity and collaboration pattern;
- Developed visualization (R igraph) and application (R Shiny) for a bipartite network with thousands of vertex and edges;

### Deloitte

Machine Learning

- Improved previous model (RandomForest) accuracy by 6% with advanced performance tuning techniques (Sklearn);
- Developed a web application to deploy the Machine Learning model using Microsoft Azure API;
- Interpreted the model to levels of management with user-interactive visualization; (Matplotlib)
- **First Prize** in Fordham March Madness Data Crunch Competition;

## EDUCATION

### Fordham University, Information Systems Department

Expected 12/2016

Master of Science, Business Analytics, GPA: 3.9

- Courses: Text Analytics; Big Data; Data Mining; Database Management; Risk Analytics; Financial Programming;

### Nanjing Normal University

2015

Bachelor of Arts, International Business (Environmental Engineering), GPA: 3.6

- Courses: Microeconomics, Global Finance, Visual Basic Programming, Advanced Mathematics, Fundamental Physics;

### Others

**Certificates:** Google Adwords & Google Analytics;

**Membership:** Steering Community in Fordham Business Analytics Society; Fordham Fintech Network; Red Cross Society of China;