XINYAN YANG

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EDUCATION

09/2016 – 05/2018 **New York University** New York
-- Master of Data Science
Main Courses: Introduction to Data Science, Programming for Data Science, Statistical and Mathematical Methods, Machine Learning, Text as Data, Big Data

09/2012 – 06/2016 **Beijing Normal University** Beijing, China
-- Bachelor of Science in Statistics
Main Courses: Mathematical Analysis, Introduction to Algebra, Probability Theory, Mathematical Modeling, Data Structure, Real Analysis, Complex Variables, Multivariate Statistical Analysis, Time Series Analysis, Statistical Data Analysis

INTERNSHIP

12/2015 – 03/2016 **Deloitte**, *Financial Advisory Services* Beijing, China
- Supported in an Asset-Backed Securities (ABS) project
- Predicted future cash flows based on historical data, utilized basic statistical models and validated the rationality of model hypotheses
- Communicated with clients and organized department and internal meetings
- Participated in presentation and report producing work

ACADEMIC PROJECTS

10/2016 – 12/2016 **Data Analyst of NYPD Vehicle Collisions**
- Processed NYPD Vehicle Collisions data utilizing numpy and pandas with Python
- Visualized processed data utilizing Python to allow the user to select maps of collision history

10/2016 – 12/2016 **Predicting user preference for movies**
- Used data from MovieLens to promote movies to users based on preferences
- Predicted user preference using Python methods of collaborative filtering and cross validation

01/2015 – 01/2015 **Data Analyst**
- Processed bank annual reports and designed analytic models to analyze the main factors that influence the Core Capital Adequacy Ratio of City Commercial Banks utilizing SAS
- 3rd author, Research on Core Capital Adequacy Ratio of Chinese Urban Commercial Banks under Basel III, *Journal of Regional Financial Research*, Vol.4, 2015

06/2014 – 05/2015 **Beijing Undergraduate Scientific Research and Entrepreneurship Action Plan**
- Investigated model of maximal information coefficient (MIC) to improve Pearson correlation coefficient and developed examples of the model to allow greater usage
- Researched and systemized R language program; conducted data processing work
- Consulted project tutor in research topic establishment; described correlation index in variables
- Accessed large number of literature and extracted practical resources
- Summarized project paper in final stage and engaged in thesis defense

07/2013 – 09/2013 **Teaching Assistant in Mathematical Analyses**
- Reorganized lecture notes and referred to relevant textbooks in Mathematical Analyses
- Assisted in editing teaching materials exerting typesetting system LaTeX

HONORS & AWARDS

- 2nd Price, Mathematical Modeling Competition, Beijing Normal University
- Honorable Mention, Academic Science and Technology Contest, Beijing Normal University

SKILLS

- Proficient in using R language and Python for data analysis
- Familiar with MySQL, MATLAB, SAS, LaTeX and EViews