Yurui Mu
2017 Summer/Fall Intern

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WORK EXPERIENCE

JULY – AUGUST 2015

National Supercomputing Center in Jinan, China

Research Assistant

- Research on hypercube-like topologies and graph theory, to compute add-on link efficiency comparing to hypercube graph.
- Parallel programming based on sequel program.
- Composition for DG graph paper to be published.

MAY – JUNE 2015

Sun Yat-Sen University
Guangzhou, China

Research Assistant

- Research on supercomputer network topologies.
- Implement sequel C++ program to compute distance matrices of massive graphs.

JULY – AUGUST 2011

Shandong Jiancheng Certified Tax Agency, China

Audit Intern

- Assist on municipal agencies' fixed assets audit under surveillance from Certified Internal Auditor.
- Draft and edit audit reports with Microsoft Office.

SOFTWARE SKILLS AND PROJECTS

OCT-DEC 2016

Python

Yelp Review Text Analysis

- Supervised Learning with Python sklearn package on Yelp Academic Challenge dataset.
- Classify and determine whehter a Yelp review will get upvote or not with Logistics Regression, Classification Tree, SVM and Naive Bayes.
- Evaluate the learning results to get the best model.

MAY-AUGUST 2015

C++, MPI, Matlab

Parallel Algorithm and Analysis on Distance Matrices

- Analyze properties of hypercube-like graphs as network topologies.
- Implement algorithm for computing distance matrices of hypercube graphs with a tweak.
- Parallel program for huge graphs up to $2^{32} vertices.$
- Running time significantly faster than Dijkstra.

APRIL 2015

SAS, R, Microsoft Excel

Cluster Analysis on NBA Players

- Feature selection on NBA 2014-2015 season player's performance statistics.
- Cluster analysis on normalized data.
- Result shows 4-5 clusters consistent with players' positions.

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Others

LaTeX, MySQL, SPSS, R, Java, Adobe Photoshop, Adobe Indesign, Corel VideoStudio, Microsoft Office

EDUCATION

2016 – 2018	**New York University**	M.S. OF DATA SICENCE *First Year Graduate*
2014 – 2016	**Stony Brook University**	B.S. OF APPLIED MATHEMATICS AND STATISTICS *GPA :3.93/4.0* *Summa Cum Laude*
2011 – 2014	**Nanjing University**	UNDERGRADUATE OF MATHS DEPARTMENT (2012-2014) ENGLISH LANGUAGE AND LITERATURE (2011-2012) *GPA :3.25/4.0*

COURSEWORKS

2017	**Center for Data Science at NYU** *Machine Learning, Deep Learning (PyTorch), Text as Data (R), Big Data (Hadoop), Intro to Data Science (Python), Programming for Data Science (Python), Computing for Finance (Java)*
2016	**Stony Brook University** *Women and Politics, Crusades and Medieval History, Theatre Textual Analysis, Statistical Lab (SAS, R), Time Series, Operation Research, Probability Theory, ODE, PDE, Dynamic System, Numerical Analysis (C++), Real Analysis, Complex Analysis, Game Theory, Computational Geometry(C++, LaTeX), Data Analysis (SPSS, SAS)*
2014	**Nanjing University** *Discrete Mathematics, College Physics, Analysis (I,II,III), Algebra (I,II), Analytic Geometry, Visual C++(I,II), Intro to Literature, Western Culture, Reading and Criticism, Britain and American Literature and culture, Research on Literary Topics (Female Literature, Female Bildungsromans), Power and Culture: Globalization in Southeast Asia since 1780s*

EXTRACURRICULAR ACTIVITIES

Met Opera, Broadway Musicals, Museums, Human vs Zombie, Graphic Design, Translate for Coursera