

Fang (Clara) Cabrera

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EDUCATION

Sept 2017 - Dec 2019 New York, NY	New York University: Courant Institute of Mathematical Sciences <i>Masters in Computer Science</i>	GPA: 3.815
Summer 2017 Stanford, CA	Stanford University CCRMA Workshops <i>Computer Research in Music and Acoustics</i>	
Sept 2016 - May 2017 New York, NY	Manhattan School of Music <i>Viola Studies under Karen Ritscher</i>	
Sept 2013 - May 2015 New York, NY	New York University: The Steinhardt School <i>Masters of Music, Instrumental Performance (Violin and Viola)</i>	GPA: 3.82
Sept 2009 - June 2013 Beijing, China	Peking University <i>Bachelor of Arts, Major in Chinese Language and Literature</i>	

SAMPLE ACADEMIC PROJECTS

Machine Learning:	Application of ARIMA, RNN and LSTM to Foreign Exchange Rate Prediction (Spring 2019) Descriptive Modeling and Unsupervised Learning of Textual Data (Spring 2019)
Natural Language Processing:	Language Style Transfer from Sentences with Arbitrary Unknown Styles Using Fine-tuned BERT (Fall 2019)
GPU Programming:	Parallelizing Interior Point Method For Linear Programs on GPU (Fall 2019)
Big Data Analytics:	Twitter Keyword Extraction Using Java and HPC (Spring 2019) Loan Discrimination Analysis with HMDA Data Set Using Spark (Summer 2019)
Compiler Construction:	Parser From MiniC to ARM32 Implemented in HACS (Spring 2019)
System Programming:	Two-Pass Linker in C (Fall 2018) Scheduler Implemented with Discrete Event Simulation in C (Fall 2018) Virtual Memory Manager in C (Fall 2018)

RELEVANT COURSEWORK

Operating Systems | Programming Languages | Fundamental Algorithms | Big Data Science
Data Communications and Networks | Mathematical Tools for Computer Science
Machine Learning | Realtime Big Data Application | Compiler Construction
Statistical Natural Language Processing (Fall 2019) | Database System (Fall 2019) | Graphics Processing Units (Fall 2019)

SKILLS IN DEVELOPMENT

Java | SQL | NoSQL | OCaml | Lisp | C | Scala | Spark | Hadoop | Python | CUDA

DISTINCTIONS

2016 Various	Full Merit Scholarship Offers from Top Classical Music Schools Yale School of Music Manhattan School of Music New England Conservatory London Guildhall School of Music and Drama London Royal Academy of Music
2015 New York, NY	NYU Concerto Competition Winner Featured viola soloist in NYU Symphony Orchestra's annual concert

PERSONAL INTERESTS

Functional Programming | J-Drama | Philosophy | Sci-Fi | LotR | Investing | Cooking | Travel | Assassin's Creed