Education Background:

•	M.S.	Computer Science	The George Washington University	2015—2016
•	M.S.	Biophysics	Northeast Forestry University	2010—2013
•	B.S.	Physics	Northeast Forestry University	2006—2010

Research Experience:

- 2016.6 present Climate data analyzing by R and frost points prediction Adviser: Prof. Claire Monteleoni & Michael Mann (GWU)
- 2014. 7 Scene Image Identification and Positioning HIT CS College
 Adviser: Prof. Dongjie Zhu (HIT)
- 2012. 9 –2013. 3 The study of defect edge detection in blockboard X-ray images by Shannon entropy Adviser: Prof. Dawei Qi (NFU)
- 2012.2 -2012.10 The study of multifractal analysis for the defect detection Adviser: Prof. Dawei Qi (NFU)
- 2011.10 –2012.4 The study of defects description in blockboard by Hough Transform Adviser: Prof. Dawei Qi (NFU)
- 2011.5 –2011.12 The study of automatic fiberboard density testing based on CT Adviser: Prof. Dawei Qi (NFU)
- 2010.9—2011.3 Successfully applied for and took part in the graduate technology innovation project of Northeast Forestry University: Non-destructive Testing of Composite Panel Internal Defect Adviser: Prof. Dawei Qi (NFU)
- 2009.10-2010.2 Participated in the undergraduate innovative experimental project of Northeast Forestry University: The Design and Production of Chinese Medicine Ultrasonic Extraction Machine
 Adviser: Prof. Runzhou Su (NFU)

Paper:

- [1] Shuyue Guan, Dawei Qi. Multifractal Analysis of Blockboard X-Ray Images for the Defect Detection[J]. AISS: Advances in Information Sciences and Service Sciences, Vol. 4, No. 18, pp. $149 \sim 156, 2012$
- [2] **Shuyue Guan**, Dawei Qi, Yu Han. *Automatic Fiberboard Density Testing Based on Application of Computed Tomography*[J]. Information and Business Intelligence, Vol. 267, No. 4, pp. 614 ~ 620, 2012
- [3] **Shuyue Guan**, Dawei Qi. *Defects Description in Blockboard by Hough Transform and Minimum-Perimeter Polygons*[J]. IJACT: International Journal of Advancements in Computing Technology, Vol. 4, No. 23, pp. 365 ~ 375, 2012
- [4] **Shuyue Guan**, Dawei Qi. *Defect Edge Detection in Blockboard X-ray Images by Shannon Entropy*[J]. AISS: Advances in Information Sciences and Service Sciences, Vol. 5, No. 5, pp. 988 ~ 996, 2013
- [5] Yu Han, DaWei Qi, **Shuyue Guan**. Application of Computed Tomography in Wood-Polymer Composites Density Detection[J]. Advanced Materials Research, Vol. 428, pp. 57 ~ 60, 2012
- [6] Yu Han, Dawei Qi, **Shuyue Guan**. Edge Detection of Frothy Wood-Polymer Composites CT Image based on Log Operator[J]. JCIT: Journal of Convergence Information Technology, Vol. 8, No. 2, pp. 469 ~ 478, 2013
- [7] Hongbo Mu, Mingming Zhang, Dawei Qi, **Shuyue Guan**, Haiming Ni. Wood Defects Recognition Based on Fuzzy BP Neural Network[J]. matrix, 2015, 9: 10.

Course Project:

- 2016.1 –2016.5 An effective way to improve and adapt Finite State Machine to Behavior Tree Course: Artificial Intelligence
- 2016.1 –2016.5 Hand Gesture Recognition and Tracking Based on Structural Models Course: Computer Vision
- 2016.1 –2016.5 The study of Incremental Clustering: The Case for Extra Clusters, and Comparison of methods for Spatio-temporal Data Analysis Course: Advanced Machine Learing
- 2015.9 –2015.12 Comparison of classification algorithms (Adaboost, Decision Tree, Naive Bayes Classifier, ANN, SVM, et al.) in software fault prediction Course: Machine Learning
- 2015.9 –2015.12 Implement some parts of a simplified Baseline JPEG by Matlab Course: Data Compression
- 2015.9 –2015.12 Graph analyzing based on data extracting from email, and explored variations in clustering using R Course: Big Data and Analytics
- 2015.5 –2015.7 The study of Polymorphsim & Concurent Programming in Java, build a simple Web application by using MVC Design Pattern and a simple RESTful Web application Course: Advanced Software Paradigms
- 2015.1 –2015.5 Search information in CSV file, find closest pair of points in 2D, find the Longest Increasing Subsequence and the study of All Pairs Shortest Path problem

Course: Design & Analysis of Algorithm

Honors and Awards:

•	Provincial Excellent Graduate; Excellent Graduate of NFU	2013
•	National Graduate Fellowship (RMB 20000 Yuan)	2012
•	Fund of Graduate Technology Innovation Project of NFU (RMB 30000 Yuan)	2010
•	Excellent Graduation Thesis of NFU	2010
•	The third prize in MCM	2010
•	Major Award of NFU	2009

Activities:

- Graduate Assistant in The George Washington University (Jan.-May. 2016; Sep.-Dec. 2016)
- AIESEC, "Dear to Dream", Volunteer (Jul. 2013-Sep. 2013; Jul. 2012-Sep. 2012)
- AIESEC, "Green Power Now!", Volunteer (Dec. 2013-Feb. 2014; Dec. 2012-Feb. 2013)
- Harbin Electrical Equipment Factory, Internship (Sep.2010-Nov.2010)

Qualification & Professional Skills:

Computer Languages: Matlab, R, C/C++, C#, Visual Basic

Software: Matlab, Wolfram Mathematica, RStudio, Visual Studio, Eclipses, MS Office (Word, Excel, PowerPoint), Adobe Photoshop

Language Skill: Chinese (Native), English (Professional), Japanese (Elementary)