

## **Education**

**2016-present**    **PhD in Computer Science, CUNY Graduate Center, US**  
**2003-2008**    **BS in Electronics and Telecommunications, Hanoi University of Science and Technology, Vietnam**  
GPA: 8.16 (Grading scale: 10).  
Classification: Excellent.  
Ranking: 1<sup>st</sup> out of 43 students in the class.  
Top 1% of the School of Electronics and Telecommunications.

## **Research experience**

**2017**            **Concatenative analysis-by-synthesis**  
Extract speech feature in order to recognizing speech in noise by synthesizing it non-parametrically.  
Tool: Tensorflow, Python

**2017**            **Music composer classification**  
Using different machine learning technique: Support Vector Machines (SVM), Logistic Regression (LR), K-Nearest Neighbors (KNN) to recognize music pieces from different classic composers for machine learning class project.  
Tools: Python, Scikit-learn, music21

**2016**            **Incorporating a speech model into multichannel spatial clustering**  
Review literature and deploy baseline method from M. Souden, J. Chen, J. Benesty, and S. Affes, "An integrated solution for online multichannel noise tracking and reduction," which base purely statistical information in the data to estimate the noise and speech probability distributions.  
Tool: Matlab

**2007**            **Project : Telecommunication Network Design**  
Design telecommunication network by using Visual Basic.  
Design Access Network: build CMST (Capacitated Minimum Spanning Tree) by using Kruskal's algorithm.  
Design Backbone Network with Mesh Network Topology Optimization Routing (Mentor).  
Use Dijkstra's algorithm to construct a Shortest Path Tree and Prim's algorithm to build Minimum Spanning Tree.

**2007**            **Project : Data Management**  
Create a student data management program for Student Administration Department by using Visual Basics and SQL Server.

**2008**            **Graduation thesis: IDS - Intrusion Detection System**  
Work at Network Lab in Hanoi University of Science and Technology.  
Analyze Internet threats and attacks.

Analyze IDS system structure and its operation.  
Build a free security system on Linux with IDS (snort), firewall (shorewall), web-server (apache), data (mysql), web-based interface (webmin).

**2008**      **Internship report: WLAN Security**  
Work at Security Lab in FPT Company.  
Analyze WLAN structure and threats.

## Work experience

**2016-present**    **CUNY Graduate Center – Research Assistant**  
**2011-2016**      **Texas Instruments - Technical Business Development Engineer**  
Support customers in using TI semiconductor products and recommend solutions to build electronic devices.  
Present technical seminars and organize microcontroller contests.  
**2008- 2011**    **Viettel Technologies - Technical Engineer**  
Technical support in network and system for customers.  
Prepare technical solutions and give technical training sessions to team members.

## Skills and competencies

Programming languages: Python, Matlab, C, C++, PHP, HTML, Java, Visual Basic and assembly.  
Query language: SQL.  
Databases: MySQL, Microsoft SQL Server  
Operating systems: Linux (Ubuntu, Fedora, Redhat)  
Strong Mathematics (Probability, Statistics and Calculus), Computer Science, Network and Electronics background.