

Phuong Nguyen

Curriculum Vitae

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Education

- 2013–2014 **Master Degree**, *University of Paris 13, Math and Computer Science*.
Specialize in Algorithm, Image and Mathematical Model.
- 2009–2013 **B.Sci.**, *Vietnam National University, Math and Computer Science*.
Specialize in Analysis with Distinction. Dean's list in Graduation.
Thesis on the lower bound of Gromov-Hausdorff distance.
Supervisors: Dr. Huynh Quang Vu (Vietnam National University, Vietnam) & Assistant Professor Facundo Memoli (Ohio State University, USA).
- 2006–2009 **Diploma**, *Vietnam National University, High School for the Gifted*.
Specialize in Computer Science with Distinction.

Miscellanies

- 2015 **Completion**, Coursera.
Clustering in Data Mining, University of Illinois at Urbana-Champaign - 96.7%.
Machine Learning, Stanford University. - 98.4%
Business Foundation Specialization, University of Pennsylvania. (On going)

Experience

Vocational

- Aug **Independent Researcher**, *Artificial Intelligence*.
2015-Present Machine Learning, Neuroscience, and Data Analysis.
- Surveyed on three main areas: deep learning, decision tree and graphical models.
 - Tested and run several novel algorithms in Python/ R/ Matlab.
 - Achieved top 10 % of six Kaggle competitions.
- May-July **Research Engineer**, *Singapore Management University*, Singapore.
2015 Data Privacy and Security in Information System. Supervised by Prof. Pang Hwee Hwang.
- Studied a theoretical framework based on support vector machine.
 - Proposed and evaluated ideas to develop a new privacy model for database.
 - Built a prototype in R and C/C++ to test binary embedding methods.
- April-Aug **Research Intern**, *École Polytechnique*, France.
2014 Computational Neuroscience. Supervised by Dr. Jing-Rebecca Li, HDR.
- Simulated a highly packaged model of neural dendrites in 3D by Matlab.
 - Solved numerical analysis equations by finite volume method with Fortran90.
 - Graded 16/20 by École Polytechnique and University of Paris 13.

Apr 2012 – **Research Intern**, W, Startup, Vietnam.

Dec 2013 Product Analysis, and Market Research.

- Conducted quantitative analysis and studied potential competitors.
- Assisted engineers to develop and promote products.

Management & Leadership

Aug 2014– **Manager & Content Leader**, *Vietnam team*, INSPI.CORP, Startup.

Apr 2015 Released over 600 original science-based/entertaining articles by managing a team of 3-7 people. Launched 3 new projects by researching and worked with engineers and marketers.

Sep 2012– **Project Manager**, *Vietnam National University*, Ho Chi Minh City.

Sep 2013 Built a knowledge base of Applied Mathematics in Science and Technology, with over 500 articles. Managed a core team with 7 members and nearly 100 participants in two years.

Sep 2012– **Chief Editor & Chief Executive**, *EXP Magazine*, Ho Chi Minh City, Vietnam.

Dec 2013 Run 2 digital versions of a student online magazine with 5 core writers and editors. Produced more than 20 highly qualified articles in various perspectives of Mathematics in life.

Apr 2012– **Manager**, *Frogleap Foundation*, N.G.O., Ho Chi Minh City, Vietnam.

Dec 2013 Led a team of 3-4 members. Run 2 big projects. Coordinated 1 event and several internal social campaigns. Developed and managed 2 websites, e.g. the official and the project site.

Awards and Fellowships

- Ph.D scholarship at Singapore Management University awarded by Singapore Government in 2015.
- Master M2 scholarship awarded by Vietnam Government and Ecole Polytechnique at France in 2014.
- Ph.D Fellowship by the University of Adelaide - Australia in 2013.
- Third Rank of Vietnam, Laos and Cambodia, "Go Green City" Creative Idea Contest, Schneider Electrics - France, 2013.
- Second Rank of "Adventure of Finding Solution", annual academic competition - Math and CS, Vietnam National University, 2012 (Team leader).
- Third Rank of "Excited at Computer Science", annual academic competition - Computer Science, Vietnam National University, 2011.

Skills and abilities

Programming MATLAB, R, Python (Advance), Jython, Javascript, C/C++, SQL, Linux cmd (Competent), Ruby. (basic)

Analyzing MATLAB, R, Pandas, JAVAPLEX.

Visualizing MATLAB tools, R packages, Matplotlib, D3, GRAPHVIZ.

Services

Oct 2015 – **Writer & Editor**, *Viet Journal of Science*.

Present Wrote and edited career news.

July 2013 – **Class Monitor**, *Master Class*, French Vietnam Program.

Dec 2014 Communicated between French Professors and Vietnamese students. Organized class in courses and other activities in Vietnam and France.

- March 2010 – **Class Monitor**, *Honour Class*, Math and Computer Science.
 Dec 2013 Communicated between lectures and students. Organized class activities in courses.
 Oct 2011 – **Contributing writer**, *Viet Psychology Blog*.
 Dec 2012 Wrote three articles about psychology. Contributed to one project.
 April 2012 – **Volunteer & Leader**, *Frogsleap Foundation*, A Helping Hand Project.
 August 2012 Recruited new members. Led a volunteering group of 3-7 people. Supported members in two other teams in multiple outdoor/ indoor events.
 Oct 2011 – **Member & Leader**, *Viet Youth Entrepreneur*, Web team.
 April 2012 Administered content including all articles and news. Designed a prototype of new website layout. Organized and facilitated team activities in three months.
 Sep 2010 – **Member**, *Student Union Executive Board*.
 June 2011 Facilitated and encouraged academic activities in Math and Computer Science: two academic clubs in math and computer science, and academic activities in an honour class.
 June 2010 – **Volunteer**, *Vietnam National University*, Green Summer.
 August 2011 Supported members in social and academic activities. Designed a digital magazine, and posters; a handmade diary. Won the first prize of the city for the best charity diary.
 2009 & 2010 **Organizer**, *High School for the Gifted Alumna Group*, "Entropy Challenge".
 Produced a movie, assisted with designing posters and standees by Adobe Photoshop, Adobe Illustrators and Sony Vegas. Supported tech and equipment in main/on-stage events.

Certificates

- 2012 **Certificate**, *CFA Institute*, Vietnam, CFA Research Challenge.
 2011 **Certificate**, *Stanford University*, Viet Youth Entrepreneur, Gear Up Program.

Languages

Vietnamese	Native Tongues	
English	Full Professional	
French	Basic level	<i>Competent in Reading and Listening</i>
Japanese	Elementary level	<i>Fluently speaking and Listening</i>
Spanish	Elementary level	<i>Fluently Speaking</i>
Mandarin	Elementary level	<i>Fluently Speaking</i>