

## Thang Duc Nguyen

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| CONTACT INFORMATION | Apt 4115, 15 avenue du Colonel Roche,<br>31400 Toulouse, France   | Cell: +33615-664-476<br>Email: <a href="mailto:thangdn.tlu@gmail.com">thangdn.tlu@gmail.com</a><br>Site: <a href="http://thangdn.com">thangdn.com</a> |
| GOAL                | Seeking a full-time position in Machine learning/ Deep learning and Data-mining.  |   |
| RESEARCH INTERESTS  | My principal research interests in the field of machine learning, deep learning, data mining, mathematical and statistical modeling as well as optimization techniques.   |   |
| WORK EXPERIENCE     | <b>Internship</b><br>Deep learning,<br>Torus Action   | Sept 2019 to present  |
|                     | <b>Visiting Lecturer</b><br>Computer science,<br>VNU - University of Engineering and Technology   | Sept 2018 to 2019   |
|                     | <b>Lecturer</b><br>Computer science,<br>Thang Long university   | Aug 2017 to sept 2019   |
|                     | <b>Co-founded &amp; Former Chairman</b><br>Thang Long Information Technology Club,<br>Thang Long university   | Jan 2014 to May 2016  |
| EDUCATION           | <b>Paul Sabatier University</b> , Toulouse, France<br><br>Master, Computer Science for Aerospace  | Sept 2019 to present  |
|                     | <b>Thang Long University</b> , Hanoi, Vietnam<br><br>B.Sc., <a href="#">Computer science</a> - GPA: 3.6/4 via 143 credits, Rank: 3/232 <ul style="list-style-type: none"><li>• Thesis: <i>Community structure detection in large-scale networks</i></li><li>• Score: 10/10</li><li>• Advisor: Tran Vinh Duc, Ph.D</li></ul> | Aug 2013 to Sep 2017  |
| RESEARCH EXPERIENCE | <b>Researcher</b><br>ThangLong - Torus AI Lab   | Jun 2019 to present   |
|                     | <b>Researcher</b><br>Formal proof,<br>Chairman: Thomas C. Hales, Professor  | Aug 2018 to Sept 2019   |
|                     | <b>Researcher</b><br>Deep learning in medical analysis,<br>ThangLong MedAI Brain,<br>Chairman: Phuong Hoang Nguyen, Professor   | Aug 2017 to Sept 2019   |
|                     | <b>Research Assistant</b><br>Digital media,<br>Chairman: Hong T.Vu, Assistant Professor   | May 2017 to Dec 2017  |
|                     | <b>Researcher</b><br>Mining of Massive Datasets,<br>Thang Long University<br>Chairman: Tran Vinh Duc, Ph.D  | Sep 2016 to March 2017  |
|                     | <b>Researcher</b>   | Jan 2016 to Sep 2016  |

Semantic web,  
Thang Long University  
Supervisors: Tran Duc Minh, Ph.D

**Research Assistant**

May 2015 to Dec 2015

Cryptography,  
Thang Long University  
Supervisors: Tran Vinh Duc, Ph.D

PUBLICATIONS

**Articles**

1. [Ng.Duc.Thang, Tran.V.Duc \(Dec 2015\)](#). Generate large prime numbers for RSA encryption algorithm. *ThangLong University*.

**Thesies**

1. [Ng.Duc.Thang \(2017\)](#). Community structure detection in large-scale networks. *ThangLong University*

CERTIFICATES AND  
AWARDS

- 2019: Math-AI Toulouse scholarship: 10,000\$ per year
- 2018: Deep learning specifications, Andrew Ng, Coursera.
- 2018: Mathematics for Machine Learning specifications, Coursera
- 2017-2018: Co-coach in ACM-ICPC and Informatics Olympic Contest TLU teams
- 2016: Thang Long University Merit scholarship: 500\$
- 2016: Certificate of completion of summer school about data mining, VNU-UET.
- 2016: Machine learning, Andrew Ng, Coursera.
- 2015: Certificate of completion of Internet of Things course, SAPPORO IT FRONT & VINASA.

PROJECT

**Student advisor and researcher**

Dec 2018 to May 2019

Automatic student attendance using face recognition  
Thang Long University

**Main Researcher**

2018 to Now

Deep Learning Project for Breast Cancer Screening in Vietnamese women  
Thang Long University and Hanoi Medical University Hospital

**Researcher**

Oct 2018 to Now

Formal abstract - FABS,  
Thang Long University, Pittsburgh University and Carnegie Mellon University

TECHNICAL SKILLS

- *Programming languages*: Lean, Python, C/C++, L<sup>A</sup>T<sub>E</sub>X, Scala.
- *Technical softwares*: Apache Hadoop, Apache Spark, Tensorflow.
- *OS*: MacOS, Ubuntu, Windows.

TEACHING  
EXPERIENCE

Instructor

Jan 2017 to present

- Introduction to programming in python
  - Object Oriented Programming in C++
  - Machine learning
- Advanced Programming with C++  
Data structure and Algorithms in C++

REFERENCES

[Phuong Hoang Nguyen](#), Professor of Vietnam  
Department of Mathematics and Informatics  
Thang Long University

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University of Kansas

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Duc Vinh Tran, Ph.D, Université Nice Sophia Antipolis  
Department of Computer Science  
Hanoi University of Science and Technology

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