DANG Vu Lam

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RESEARCH INTEREST

My current research interest including, but not limited to:

1. Bioinformatics: Genomics, Proteomics. Currently researching SCA and simulation of protein family.
2. Neural Network: Deep Learning and Deep Neural Net, Extreme Learning Machine.
3. Optimization algorithms: Swarm Intelligent, Swarm Optimization and Metaheuristic.
4. Data Science: Advance Data Structure, Indexing, Knowledge Representation.
5. Mathematics: Linear Algebra, Algorithm and Complexity, Graph Theory.

EDUCATION

Universtiy Grenoble Alpes

Sep. 2018 - Current *Master of Science in Informatics* UFR IMAG - ENSIMAG

Universtiy of Science and Technology of Hanoi

Oct. 2013 - Oct 2017 *Bachelor of Science and Technology* Falcuty of Information and Communication Technology ***Thesis topic****: Extreme Learning Machine*

Nguyen Tat Thanh High School

Hanoi National University of Education Sep 2010 - Sep 2013

WORKING EXPRIENCES

Master 1 Internship, Laboratoire TIMC

Jan 2019 - Aug 2019

My internship to fulfill the requirement for Master 1 program was directed by Dr Michael Blum of Laboratoire TIMC. Under his supervision I has investigated

multiple method to calculate Polygenic Risk Score, compare them under different metrics - in support of another project to create a new method to calculate PRS.

rRice project, IRD

Oct 2017 – Aug 2018

Under the supervision of Dr. Pierre Larmande and Dr. Ho Bich Hai, I helped develop an R package and accompanying Python library to mine genomics data across multiple databases.

Position: Programmer, Researcher.

ICTLab, University of Science and Technology of Hanoi

Apr 2017 – Oct 2017

As part of the collaboration between CVUT (Prague, Czech Republic) and USTH (Hanoi, Vietnam), I have done an internship under the supervision of Professor Basterrech (CVUT) that resulted in my bachelor thesis. We developed metaheuristic and swarm optimization algorithms for improving Extreme Learning Neural Networks.

Position: Intern Researcher.

FabLab USTH

May 2015 – Aug 2018

FabLab are global network of Digital Fabrication Laboratory and workshops with the purpose of enabling invention, innovation and hacking of physical world by providing access to digital fabrication tools. In 2015, I organized the FabLab at USTH as a student club with the aim to advocate and support said goals and inciting hacking mentality for students at USTH

Position: Founding Member, Mentor.

FabLab Vietnam Foundation

May 2015 – 2016

FabLab Vietnam Foundation is a consortium of all FabLabs operates in Vietnam. At the time consists of 5 Labs, our purpose is to promote the development of FabLabs style facilities and Maker Movement in Vietnam. In 2015, the Foundation received a grant of $100,000 from IPP to further expand the movement.

Position: Member, Representation of FabLab USTH.

Dream Project Incubator

September 2015 – 2016

Dream Project Incubator aims to transform ambitious, self-driven young Vietnamese into better thinkers and doers via intellectual engagement and mentorship. Every year the project award 4 scholarship for ambitious Vietnamese whose age are between 19 and 25 for a 3 months summer trip to MIT, USA. After the conclusion of my USA trip, I served in the board of alumini, and as jury member and organizer for 2016 program

Position: Alumni, Organizer, Jury.

HONOR/ACTIVITIES

Dream Project Incubator

Jun 2015

Dream Project Incubator is a program setup by MIT PhDs and PhD candidates in collaboration with Boston Global Forum. I was awarded a 3 months stay in Boston for my work with FabLab USTH and FabLab Vietnam Foundation, and the chances to meet and confer with top minds from MIT and Harvard University.

3rd prize National gifted students' competition in Informatics

2007, 2008 and 2009

Held by Vietnam Ministry of Information Technology (now Ministry of Information and Communication)

SKILLS

- **Mathematics** Linear Algebra; Graph Theory; Numerical and Combinatorial Optimization; Algorithms Design and Computational Complexity Theory.
- **Sofware Engineering** Python 3.0; C, C++, C#; Java; NodeJS; R, Matlab, Tensorflow; Ruby on Rails; Arduino and Processing.
- **Hardware, Engineering, Design and Fabrication** CAD Design (CATIA, Solidwork, Fusion 360); Metal Working; CNC machining; 3D printing; Electronics.
- **Language**
  - English IELTS Academic 7.5 (as of 2018) Completed my Bachelor program in English

– Vietnamese First language
– French Beginner