

Dang Ha THE HIEN

PERSONAL DATA

PLACE AND DATE OF BIRTH: Tay Ninh, VietNam | 03 November 1989
ADDRESS: Refneveien 40B, 1771 Halden, Norway
PHONE: +47 45140689
EMAIL: dang.hien@esmartsystems.com; hthdang@student.matnat.uio.no
GITHUB: <https://github.com/Nikasa1889/>
BAYESIAN STATEMENT: I strive to make all of the priors and assumptions explicit before reasoning

EDUCATION

SEPT 2014 - NOW PhD Candidate in INFORMATICS
University of Oslo, Norway
NFR Industrial PhD Scholarship – Major: Data Engineer and Data Science
Thesis: “*Big Data Analytics for Prosumers, Aggregators, and Grid Operators in the Future Energy System.*” | Advisors: Olaf Owe, Roland Olsson, Davide Roverso

SEPT 2012 - JUNE 2014 Master in APPLIED COMPUTER SCIENCE
Østfold University College, Norway
Norwegian Quota Scheme Scholarship – Major: Machine Learning
Thesis: “*Improving Deep Learning through Automatic Programming*”
| Advisor: Roland Olsson
Thesis Grade: A/A, GPA: A⁻/A

SEPT 2007 - JUNE 2012 Undergraduate Degree in COMPUTER SCIENCE and ENGINEERING
VietNam National University - Ho Chi Minh City University of Technology
Honors Program – Major: Computer Engineering
Thesis: “*Building a Wireless Sensor Network and management system based on TinyOS and Zigbee/IEEE 802.15.4*” | Advisor: Anh-Vu Dinh-Duc
Thesis Grade: 10/10, GPA: 8.9/10

WORK EXPERIENCE

SEPT 2014 - NOW Data Scientist at **ESMART SYSTEMS**, Norway
Smart Grid Solutions Provider
Together with the senior architects at eSmart Systems, proposed the Big Data Analytics architecture called “Graph of Virtual Actors” for IoT applications. Provided time-series analysis for data collected from our SmartGrid testbed including (multivariate) time-series forecasting and clustering models. Provided solution for Statoil gas turbine preventive maintenance project in cooperation with Kongsberg Digital and McKinsey. Built an internal website to collect training data for the Drone project. Developed real-time streaming object recognition solution based on SSD model and ffmpeg

2012-2013 Part-time member at a Startup about *Structured Product*, Switzerland
Startup with my friends
Built pricing models for structured financial products using both analytical models (e.g., Black-Scholes) and simulation-based approaches (e.g., Monte Carlo)

SUMMER 2012 Developer at **EPSILON MOBILE**, Singapore
Digital Publishing on Mobile
Developed small part of the digital publishing back-end system using Django

SUMMER 2011 Summer Intern at **POSTECH UNIVERSITY**, Korea
Worked in the Mobile Networking Lab. Improved the simulated rate adaptation algorithms for the Wi-Fi 802.11 wireless networking standard

SPRING 2010, 2011 Participant in **ASIA PACIFIC ROBOT CONTEST**, VietNam
Programmed and Optimized the robot control and strategy

TEACHING EXPERIENCE

- NOV 2015/2016 Guest Lecturer for 1 session, [BIG DATA ANALYTICS](#), Østfold University College
15-credit bachelor course | Focus: MapReduce and Apache Spark
- DEC 2015 Invited Speaker, [BIG DATA SEMINAR](#), Tekna
1 day seminar organized by Tekna
- OCT-NOV 2015 Lecturer and Organizer, [BIG DATA ANALYTICS](#), Østfold University College
15-credit master course | Focus: Statistical Learning Theory, Machine Learning and Spark
- APRIL-MAY 2015 Guest Lecturer for 4 sessions, [MACHINE LEARNING](#), Østfold University College
15-credit master course | Focus: Machine Learning
- APRIL 2015 Lecturer and Co-Organizer, [INTENSIVE BIG DATA ANALYTICS](#), NCE Smart Energy Markets
4-day course | Focus: Big Data Applications

SCHOLARSHIPS AND CERTIFICATES

- SEPT 2012 [Norwegian Quota Scheme](#) for foreign students with an outstanding CV
- JAN 2012 [Scholarship from DataLogic company](#) for outstanding students
- JUNE 2011 [POSCO Asia Fellowship](#) for outstanding Asian students with excellent English skills
- 2009-2012 VietNam National University scholarships for students with outstanding semester GPA
- SEPT 2009 Honors Program Scholarship
- 2012-2014 **12 Accomplishment Certificates** for courses on [Coursera](#), many with distinction
(Statistics, Machine Learning, Probabilistic Graphical Models, NLP, AI planning...)
- JUNE 2011 TOEFL iBT®: 97/120

PROGRAMMING SKILLS

- Basic Knowledge: C#, SQL, ffmpeg, Nodejs, Angularjs, Linux Shell, Docker
- Intermediate Knowledge: Matlab, Java, MapReduce(Spark), Git, \LaTeX
- Advanced Knowledge: R, Python

OTHER SKILLS

- Speed Typing: 100-110 WPM
- Amateur Running: Check my Strava profile [here](#)

RESEARCH INTERESTS AND ACTIVITIES

Environmental forecasting with large-scale sensor networks
Large-scale multivariate time-series models
Linear and Nonlinear dynamical systems with hierarchical models
Automatic Programming, Probabilistic Programming
Recurrent and Convolutional Neural Networks
Dynamic Programming, Reinforcement Learning
General AI, Knowledge Representation, Learning Theories, Computational Models
Playing musical instruments (Flute, Piano, Guitar).

PUBLICATIONS

- 2017 The-Hien Dang-Ha, Filippo Maria Bianchi and Roland Olsson.
“*Local Short Term Electricity Load Forecasting: Automatic Approaches*”,
30th International Joint Conference on Neural Networks (IJCNN). IEEE, 2017
[\[arXiv\]](#)
- 2016 The-Hien Dang-Ha, Davide Roverso and Roland Olsson.
“*Graph of Virtual Actors (GOVA): a Big Data Analytics Architecture for IoT*”,
IEEE International Conference on Big Data and Smart Computing (BigComp). IEEE, 2017
[\[arXiv\]](#)
- 2016 The-Hien Dang-Ha, Roland Olsson and Hao Wang.
“*Clustering Methods for Electricity Consumers: An Empirical Study in Hvaler-Norway.*”,
Norsk Informatikkonferanse (NIK), 2016.
[\[arXiv\]](#)
- 2015 Beathe Due, Monica Kristiansen, Ricardo Colomo-Palacios and The-Hien Dang-Ha.
“*Introducing big data topics: a multicourse experience report from Norway.*”
International Conference on Technological Ecosystems for Enhancing Multiculturality. ACM, 2015.
[\[arXiv\]](#)
- 2015 The-Hien Dang-Ha, Roland Olsson, and Hao Wang.
“*The Role of Big Data on Smart Grid Transition.*”
IEEE International Conference on SmartCity. IEEE, 2015.
[\[arXiv\]](#)
- 2013 Kristoffersen Steinar, The-Hien Dang-Ha, and Thien-Phuc Nguyen.
“*Paperstack-A novel lean-interactive system for documentation sharing in maritime industries.*”
IEEE International Conference on Collaboration Technologies and Systems (CTS). IEEE, 2013.
[\[arXiv\]](#)
- 2012 Anh-Vu Dinh-Duc, The-Hien Dang-Ha, and Ngoc-An Lam.
“*Nviz-a general purpose visualization tool for Wireless Sensor Networks.*”
9th IEEE International Conference on Electrical Engineering...(ECTI-CON). IEEE, 2012.
[\[arXiv\]](#)