

Huynh Tu Dang

CONTACT INFORMATION

Faculty of Informatics
Università della Svizzera italiana
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RESEARCH INTERESTS

Software Defined Networking, Distributed Systems, Programming Languages

EDUCATION

Università della Svizzera italiana, Lugano, Ticino Switzerland

Ph.D. Candidate, Informatics, September 2014 (expected graduation date: February 2019)

- Dissertation Topic: “Consensus Protocols Exploiting Network Programmability”
- Advisor: Robert Soulé
- Co-advisor: Fernando Pedone

Polytech Nice, Sophia Antipolis, Nice, France

M.S. Informatics, September 2012

- Thesis: “Higher SLA Satisfaction in Datacenters with Continuous VM Placement Constraints”
- Advisor: Fabien Hermenier

Ho Chi Minh International University (HCMIU), Ho Chi Minh, Vietnam

B.S. Computer Science, September 2006

HONORS AND AWARDS

Silver Medal in Information Technology Graduation Batch, 2010

Full scholarship for the Master of Science in Ubiquitous Networking and Computing, Sophia Antipolis, France, 2012

Full scholarship for the IT Master Program of International University, 2011

University scholarships for excellent study results, 2006-2010

ACADEMIC EXPERIENCE

Università della Svizzera italiana, Lugano, Ticino Switzerland

Graduate Student

September, 2014 - present

Includes current Ph.D. research, Ph.D. and Masters level coursework and research/consulting projects.
Lead weekly system reading group.

Teaching Assistant

Responsible for creating and grading programming assignments.

Enterprise Resource Planning, 2014, 2015

Data Management, 2015, 2016

Advanced Networking, 2016

Computer Laboratory, University of Cambridge, Cambridge, UK

Visiting Researcher

April, 2017 - May 2017

Interfacing FPGA NVMe with Xilinx FPGAs.

Ho Chi Minh International University (HCMIU), Ho Chi Minh, Vietnam

Instructor

September, 2013 - September 2014

Responsible for giving lectures, creating and grading programming assignments, quizzes, exams.

PROFESSIONAL
EXPERIENCE

Western Digital Milpitas, CA

Internship

July 2017 - Oct 2017

Project: *Providing fault-tolerance for network-attached non-volatile memory.*

INRIA Sophia Antipolis Nice, France

Internship

March 2013 - August 2013

Project: *Energy efficient algorithm for VM placement in datacenter.*

ISE-Lab, VNU Ho Chi Minh, Vietnam

Internship

June 2009 - August 2009

Project: *Web Security and SQL Injection.*

SELECTED
PUBLICATIONS

H. T. Dang, J. Hofmann, Y. Liu, M. Radi, D. Vucinic, R. Soulé, F. Pedone, *Consensus for Non-volatile Main Memory*, IEEE 26th International Conference on Network Protocols (ICNP), Sep. 2018

H.T. Dang, H. Wang, T. Jepsen, G. Brebner, C. Kim, J. Rexford, R. Soulé, and H. Weatherspoon, *Whippersnapper: A P4 Language Benchmark Suite*, 3rd ACM Sigcomm Symposium on SDN Research (SOSR' 17), Apr. 2017

H. Wang, R. Soulé, H.T. Dang, K.S. Lee, V. Shrivastav, N. Foster, and H. Weatherspoon, *P4FPGA: A Rapid Prototyping Framework for P4*, 3rd ACM Sigcomm Symposium on SDN Research (SOSR' 17), Apr. 2017

H.T. Dang, M. Canini, F. Pedone, and R. Soulé, *Paxos Made Switch-y*, SIGCOMM Computer Communication Review (SIGCOMM CCR), Apr. 2016

H.T. Dang, D. Sciascia, M. Canini, F. Pedone, and R. Soulé, *NetPaxos: Consensus at Network Speed*, 1st ACM Sigcomm Symposium on SDN Research (SOSR' 15), Jun. 2015, USA

H.T. Dang, F. Hermenier, *Higher SLA Satisfaction in Datacenters with Continuous VM Placement Constraints*, 9th Workshop on Hot Topics in Dependable Systems, Nov. 2013

H.T. Dang, H.M. Tran, P.N. Vu, and A.T. Nguyen, *Applying MapReduce Framework to Peer-to-Peer Computing Applications*, ICCCI 2012, Ho Chi Minh City, Nov. 2012. Springer LNAI 7654

CONFERENCE
PRESENTATIONS

Whippersnapper: A P4 Language Benchmark Suite, NetFPGA SUME Summit, April 2017

Whippersnapper: A P4 Language Benchmark Suite, SOSR' 17, April 2017

CAANS: Consensus As A Network Service, SIGCOMM, August 2016

CAANS: Consensus As A Network Service, Netronome Summer Webinar Series, July 2016

NetPaxos: Consensus at Network Speed, SOSR 2015, July 2015

SKILLS

- Data Processing: R, Pandas
- Languages: C/C++, Python, Bash, L^AT_EX
- Technologies: SDN, OpenFlow, P4, DPDK
- Certifications: Oracle JAVA SE 7 Programmer, Microsoft System Administrator (MCSA), VMWare VCA-Cloud, VCA-DCV (Data Center Virtualization)