

# Huynh Tu Dang

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## CONTACT INFORMATION

Faculty of Informatics huynh.tu.dang@usi.ch  
Università della Svizzera italiana www.people.usi.ch/danghu  
6900 Lugano, Ticino Switzerland *github*: http://tudang.github.io

## 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

Y. Tokusashi, H. T. Dang, F. Pedone R. Soulé, and N. Zilberman, *In-Network Computing On Demand*, 18th International Conference on Network Protocols (ICNP), Sep. 2018

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

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<sup>A</sup>T<sub>E</sub>X
- Technologies: SDN, OpenFlow, P4, DPDK
- Certifications: Oracle JAVA SE 7 Programmer, Microsoft System Administrator (MCSA), VMWare VCA-Cloud, VCA-DCV (Data Center Virtualization)