

# Huynh Tu Dang

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## CONTACT INFORMATION

Faculty of Informatics  
Università della Svizzera italiana  
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*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: 2018)

- Dissertation Topic: “CAANS: Consensus As A Network Services”
- 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*

**September, 2014 - present**

Responsible for creating and grading programming assignments.

Enterprise Resource Planning, 2014, 2015

Data Management, 2015

Advanced Networking, 2016

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

*Teaching Assistant*

**September, 2010 - September 2012**

Responsible for creating and grading programming assignments, quizzes.

Operating System, 2012

Object-Oriented Programming, 2011

Distributed System, 2011

Data Structure & Algorithms, 2010

PROFESSIONAL  
EXPERIENCE

**ISE-Lab, VNU Ho Chi Minh, Vietnam**

*Internship*

Project: *Web Security and SQL Injection.*

**June 2009 - August 2009**

**INRIA Sophia Antipolis Nice, France**

*Internship*

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

**March 2013 - August 2013**

PUBLICATIONS

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

H. Wang, R. Soule, 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

T. Jepsen, L.P. Sousa. H.T. Dang, F. Pedone, R. Soule. *Optimistic Aborts for Geo-distributed Transactions*. Technical report, Oct. 2016

H. Tu Dang, P. Bressana, H. Wang, K. Suh Lee, H. Weatherspoon, M. Canini, F. Pedone and R. Soule *Network Hardware-Accelerated Consensus*. Technical report, May 2016

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

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

H.M. Tran, S.V.U. Ha, T.H. Dang, K.V. Huynh. *Fault Resolution System for Inter-Cloud Environment*. Journal of Mobile Multimedia, 10(1&2): 16-29, Rinton Press, 2014.

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, USA

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

- Statistical Packages: R, Pandas
- Languages: C/C++, Python, Bluespec, Bash,  $\text{\LaTeX}$
- Hot Technologies: SDN, OpenFlow, P4, DPDK
- Certifications: Oracle JAVA SE 7 Programmer, Microsoft System Administrator (MCSA), VMWare VCA-Cloud, VCA-DCV (Data Center Virtualization)