# Huynh Tu Dang

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CONTACT
INFORMATION

Principal Engineer
Western Digital Corporation
951 Sandisk Drive, Milpitas CA 95035

tudang.github.io
tu.dang@wdc.com
*github:* https://github.com/tudang

RESEARCH
INTERESTS

Software Defined Networking, Distributed Systems, Programming Languages

EDUCATION

**Università della Svizzera italiana**, Lugano, Ticino Switzerland

Ph.D in Informatics, March 2019
- Thesis: "Consensus Protocols Exploiting Network Programmability"
- Advisor: Robert Soulé
- Co-advisor: Fernando Pedone

**Polytech Nice, Sophia Antipolis**, Nice, France

M.S in Informatics, September 2013
- 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 in Computer Science, September 2010

HONORS AND
AWARDS

**Silver Medal in Information Technology Graduation Batch, 2010**

Full scholarship for the Ubinet Master Program, Sophia Antipolis, France, 2012

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

University scholarships for excellent study results, 2006-2010

PROFESSIONAL
EXPERIENCE

**Western Digital** Milpitas, CA
*Principal Research Engineer* **April 2019 - present**

**Western Digital** Milpitas, CA
*Ph.D Internship* **July 2017 - Oct 2017**
Project: *Providing fault-tolerance for network-attached non-volatile memory.*

**INRIA Sophia Antipolis** Nice, France
*M.S 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.*

ACADEMIC
EXPERIENCE

**Università della Svizzera italiana**, Lugano, Ticino Switzerland
*Ph.D Candidate* **September, 2014 - January, 2019**

**Computer Laboratory, University of Cambridge**, Cambridge, UK
*Visiting Researcher*                                              **April, 2017 - May 2017**


**Ho Chi Minh International University (HCMIU)**, Ho Chi Minh, Vietnam
*Instructor*                                          **September, 2013 - September 2014**


PUBLICATIONS

Y. Tokusashi, H. T. Dang, F. Pedone R. Soulé, and N. Zilberman. In-Network Computing On Demand. In *Proceedings of the 2019 European Conference on Computer Systems (Eurosys'19)*, March 2019. Acceptance rate: 22% (45 / 121)

H. T. Dang, J. Hofmann, Y. Liu, M. Radi, D. Vucinic, R. Soulé, F. Pedone. Consensus for Non-volatile Main Memory. In *Proceedings of the IEEE 26th International Conference on Network Protocols (ICNP)*, September 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, In *Proceedings of the 3rd ACM Sigcomm Symposium on SDN Research (SOSR' 17)*, April 2017. Acceptance rate: 23% (18 / 77)

H. Wang, R. Soulé, H.T. Dang, K.S. Lee, V. Shrivastav, N. Foster, and H. Weatherspoon. P4FPGA: A Rapid Prototyping Framework for P4. In *Proceedings of the 3rd ACM Sigcomm Symposium on SDN Research (SOSR' 17)*, April 2017. Acceptance rate: 23% (18 / 77)

H.T. Dang, M. Canini, F. Pedone, and R. Soulé. Paxos Made Switch-y. in *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. In *Proceedings of the 1st ACM Sigcomm Symposium on SDN Research (SOSR' 15)*, June 2015. Acceptance rate: 20% (27 / 137)

H.T. Dang, F. Hermenier. Higher SLA Satisfaction in Datacenters with Continuous VM Placement Constraints. In *Proceedings of the 9th Workshop on Hot Topics in Dependable Systems (HotDep' 13)*, November 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' 15, July 2015

SKILLS

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