Son Dinh

507 Jolley Hall, Washington University in St. Louis, Saint Louis, MO 63130

✉ sonndinh@wustl.edu • ☐+1 (314) 585-9358 • ⌂ https://sonndinh.github.io • in sonndinh • ◯ sonndinh

EDUCATION	**Washington University in Saint Louis**, Saint Louis, Missouri, USA	
	▪ Ph.D. Candidate in Computer Science	Aug 2013 – Dec 2019 (Expected)
	• Advisors: Prof. Christopher Gill, Prof. Kunal Agrawal.	
	• Research interests: real-time systems, algorithms, parallel computing.	
	Hanoi University of Science and Technology (HUST), Hanoi, Vietnam	
	▪ B.E. in Electronics and Telecommunications	Sep 2004 – May 2009
	• Advisor: Prof. Thanh Huu Nguyen.	

CONTINUING EDUCATION	**Machine Learning**, Stanford University, Coursera	Jun 2019
	▪ Supervised learning, unsupervised learning, neural network, and best practices for machine learning projects.	
	Algorithms II, Princeton University, Coursera	Jan 2019
	▪ Graph algorithms, data structures and algorithms for string sorting and substring searching.	

RESEARCH EXPERIENCE	**Washington University in Saint Louis**, Department of Computer Science and Engineering	
	▪ Graduate Research Assistant	Aug 2013 – Present
	• Topic: Analysis and Design of Real-Time Scheduling Algorithms and Resource Sharing Protocols for Parallel Tasks.	
	• Supervisors: Prof. Christopher Gill and Prof. Kunal Agrawal.	
	Hanoi University of Science and Technology, School of Electronics and Telecommunications	
	▪ Research Assistant	Nov 2011 – Dec 2012
	• Project: Reducing Energy Consumption in Data Center Networks based on Traffic Engineering (ECODANE), a joint project between HUST and Wuerzburg University, Germany.	
	• Supervisors: Prof. Thanh Huu Nguyen, Assoc. Prof. Huong Thu Truong.	
	▪ Undergraduate Research Assistant	2008 – 2009
	• Project: German – Vietnamese Next Generation Network Services Research and Development Testbed (GVNext), a joint project between HUST and Fraunhofer FOKUS Berlin, Germany.	
	• Supervisor: Prof. Thanh Huu Nguyen.	

PUBLICATIONS

JOURNALS

[1] **S. Dinh**, J. Li, K. Agrawal, C. Gill, and C. Lu, "Blocking Analysis for Spin Locks in Real-Time Parallel Tasks", *IEEE Transactions on Parallel and Distributed Systems*, vol. 29, no. 4, Apr 2018.

CONFERENCES

[1] **S. Dinh**, C. Gill, and K. Agrawal, "Analysis of Global Fixed-Priority Scheduling for Generalized Sporadic DAG Tasks", arXiv:1905.05119 [cs.DC], 2019.

[2] J. Li, **S. Dinh**, K. Kieselbach, K. Agrawal, C. Gill, and C. Lu, "Randomized Work Stealing for Large Scale Soft Real-Time Systems", in *Proceedings of 37th IEEE Real-Time Systems Symposium*, Porto, Portugal, Dec 2016.

TEACHING EXPERIENCE	**CSE 522S: Advanced Operating Systems**, Washington University in Saint Louis	
	▪ Teaching Assistant	Spring 2018
	• Role: Contributed to the course material, including labs and studios. Held office hours and helped students with the course content.	
	• Instructor: Prof. Christopher Gill.	

AWARDS & SCHOLARSHIPS	▪ Vietnam Education Foundation Fellowship Alternate	2013
	Alternate for receiving financial support for graduate study in the U.S.	
	▪ Vietnam's Ministry of Education and Training Scholarship	2004 – 2009
	For attaining very good academic performance.	
	▪ Third Place in Hanoi's Chemistry Olympiad	2002
	Organized by Hanoi province for high school students excellent in chemistry.	

PROFESSIONAL SERVICES

Reviewer: ACM Transactions on Parallel Computing, IEEE Transactions on Parallel and Distributed Systems

INDUSTRY EXPERIENCE

Wala Jsc., Hanoi, Vietnam

▪ Software Engineer   Aug 2012 – Apr 2013
  - Project: Developed and maintained backend system for a mobile social media application, which allows users to call, send instant messages, connect and share photos.

VNG Corp., Hanoi, Vietnam

▪ R&D Engineer   Aug 2011 – Mar 2012
  - Project: Improved performance of a distributed key-value storage for a Vietnamese online social network, named Zing Me.

Xener Systems Inc., Hanoi, Vietnam

▪ R&D Engineer   Jul 2009 – Feb 2011
  - Project: Developed application servers for IP Multimedia Subsystem, a core subsystem of the Third Generation (3G) cellular network. Worked with various multimedia Internet protocols, including Session Initiation Protocol and Session Description Protocol.

LANGUAGES

▪ English: Professional working proficiency.
▪ Vietnamese: Native language.

SKILLS

▪ Programming Languages: C/C++, Java, Python, MATLAB.
▪ Platforms & Tools: GNU/Linux, macOS, OpenMP, Intel CilkPlus, Shell, LaTeX.
▪ Computer Networking: TCP/IP, Session Initiation Protocol (SIP), Software-Defined Networking (SDN).

CERTIFICATE

▪ Cisco Certified Network Associate, version 3.1   2009

REFERENCES

▪ **Prof. Christopher Gill**
  Professor of Computer Science and Engineering
  Washington University in Saint Louis
  1 Brookings Drive, St. Louis, Missouri 63130, USA
  E-mail: cdgill@wustl.edu

▪ **Assoc. Prof. Kunal Agrawal**
  Associate Professor of Computer Science and Engineering
  Washington University in Saint Louis
  1 Brookings Drive, St. Louis, Missouri 63130, USA
  E-mail: kunal@wustl.edu

[CV compiled on 2019-07-31]