Son Dinh

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EDUCATION	**Washington University in Saint Louis**, Saint Louis, Missouri, USA	
	▪ Ph.D. Candidate in Computer Science	Aug 2013 – Present
	• Advisers: Prof. Christopher Gill, Prof. Kunal Agrawal	
	• Focus: Real-time systems, scheduling algorithms, parallel computing.	
	Hanoi University of Science and Technology (HUST), Hanoi, Vietnam	
	▪ B.E. in Electronics and Telecommunications	Sep 2004 – May 2009

RESEARCH EXPERIENCE

Washington University in Saint Louis,
Department of Computer Science and Engineering

▪ Graduate Research Assistant — Aug 2013 – Present
- Project: Analysis and Design of Real-Time Scheduling Algorithms and Synchronization 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 Datacenter 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, 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 A. Yone, "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 for Sporadic DAG Tasks", working paper, 2018.

[2] J. Li, **S. Dinh**, K. Kieselbach, K. Agrawal, C. Gill, and C. Lu, "Randomized Work Stealing for Large Scale Soft Real-Time System", 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, helped students with studios and labs.
- Instructor: Prof. Christopher Gill.

AWARDS & SCHOLARSHIPS

▪ Vietnam Education Foundation Fellowship Alternate — 2013
Alternate for receiving financial support for graduate study in the US.

▪ 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 City for high school students excellent in chemistry.

PROFESSIONAL SERVICES

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

WORK EXPERIENCE	**Wala, Jsc**, Hanoi, Vietnam

- Software Engineer — Aug 2012 – Apr 2013
  - Project: Develop and maintain back-end systems for a social media application.

VNG Corporation, Hanoi, Vietnam

- R&D Engineer — Aug 2011 – Mar 2012
  - Project: Improve performance of a distributed storage system for Zing Me online social network.

Xener Systems, Inc, Hanoi, Vietnam

- R&D Engineer — Jul 2009 – Feb 2011
  - Project: Develop a presence service for IP Multimedia Subsystem (IMS), a core subsystem of the Third Generation (3G) cellular network, based on Session Initiation Protocol (SIP).

LANGUAGES

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

SKILLS

- Programming languages: C, C++, Java, Python.
- Platforms & tools: GNU/Linux, macOS, 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 2018-12-20*]