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RESEARCH INTERESTS	I am broadly interested in quantum computing, artificial intelligence, machine learning, internet of things, mobile computing, and cloud computing.				
Work	JPMorgan Chase - FLARE, New York, NY Executive Director		January 2021–Present		
	IBM Research, Yorktown He Research Staff Member	ights, NY	September 2016–December 2020		
	University of Illinois at Urb Research Assistant	oana-Champaign, Urbana, IL	January 2012–December 2016		
	Intel Corporation - New Dev Graduate Intern Technical	rices Group, Santa Clara, CA	May 2014–September 2014		
	University of Illinois at Urb Teaching Assistant	oana-Champaign, Urbana, IL	August 2011–December 2011		
	Dartmouth College, Hanover Teaching Assistant	r, NH	September 2008–September 2010		
	University of Massachusetts Teaching Assistant	s at Amherst, Amherst, MA	January 2008–May 2008		
Education	PhD, Computer Science University of Illinois at Urbana	-Champaign, IL USA	May 2017		
	MS, Computer Science Dartmouth College, NH USA		June 2011		
	BS , Computer Science, Mather University of Massachusetts at		May 2008		
SERVICES	Technical Program Committee International Workshop on Quantum Software Engineering (Q-SE)				

and Cyber-Physical System Networking (MISENET)	
Conference Reviewer	2010
ACM International Conference on Mobile Computing and Networking (MOBICOM)2018. International Symposium on Modeling and Optimization in Mobile,	
Ad Hoc and Wireless Networks (WIOPT)	
ACM International Conference on Embedded Networked Sensor Systems (SenSys) 2015 ACM/IEEE International Conference on Information Processing in Sensor Networks	
(IPSN)	
International Conference on Decision and Control (CDC)	
International Symposium on Mobile Ad Hoc Networking and Computing (MOBIHOC)	
IEEE International Conference on Computer Communications (INFOCOM)	
IEEE International Conference on Distributed Computing Systems (ICDCS)	
IEEE International Conference on Communications (ICC)	
International Conference on Connected Vehicles & Expo (ICCVE)	
Military Communications Conference (MILCOM)	
IEEE International Conference on Sensing, Communication, and Networking (SECON)	
IEEE International Conference on Data Mining (ICDM)	
$ \ \text{International Conference on Computing and Convergence Technology (ICCCT)} \ \ldots \ldots .$. 2013
ACM International Conference on Ubiquitous Computing (UBICOMP)	. 2012
Journal Reviewer	
IEEE Transactions on Mobile Computing (TMC)	2020
IEEE Transactions on Computers (TC)	
SoftwareX	
IEEE Transactions on Parallel and Distributed Systems (TPDS)	
The Journal of Supercomputing (SUPE)	
Proceedings of the ACM on Interactive, Mobile, Wearable	_010
and Ubiquitous Technologies (IMWUT)	2018
IEEE/ACM Transactions on Networking (TON)	
Knowledge-Based Systems	
Sensors	
Applied Sciences	. 2018
Algorithms	
IEEE Transactions on Services Computing (TSC)	
Current Signal Transduction Therapy (CSTT)	
Computer Networks (COMNET)	
Ain Shams Engineering Journal	. 2017
Computers	
ACM Transactions on Sensor Networks (TOSN)	
ACM Transactions on Cyber-Physical Systems (TCPS)	. 2016
Frontiers of Information Technology & Electronic Engineering	
Mobile Information Systems	. 2016
IEEE Transactions on Wireless Communications (TWC)	
IEEE Transactions on Industrial Informatics (TII)	2014
Ad Hoc & Sensor Wireless Networks	
International Journal of Geo-Information	. 2012

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- ARXIV Scott Schneider, Xavier Guerin, **Shaohan Hu**, Kun-Lung Wu, *A Cloud Native Plat-* 2020 form for Stateful Streaming, arXiv Distributed, Parallel, and Cluster Computing, October, 2019.
- ICST Marco Pistoia, Peng Liu, Richard Chen, **Shaohan Hu**, Stephen Wood, *Paralleliza-*2020 tion of Classical Numerical Optimization in Quantum Variational Algorithms, The 13th IEEE International Conference on Software Testing, Validation and Verification (ICST 2020), Porto, Portugal. August 24–28, 2020.
- IPSN Abhishek Gupta, **Shaohan Hu**, Weida Zhong, Adel Sadek, Lu Su, Chunming Qiao, 2020 Road Grade Estimation Using Crowd-sourced Smartphone Data, The 19th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2020), Sydney, Australia, April 21–24, 2020.
- ARXIV Arthur G. Rattew, **Shaohan Hu**, Marco Pistoia, Richard Chen, Steve Wood, 2019 A Domain-agnostic, Noise-resistant, Hardware-efficient Evolutionary Variational Quantum Eigensolver, arXiv Quantum Physics, October, 2019.
- ICDCS Tarek Abdelzaher, Shuochao Yao, Yifan Hao, Yiran Zhao, Ailing Piao, Huajie Shao,
 2019 Dongxin Liu, Shengzhong Liu, Shaohan Hu, Dulanga Weerakoon, Kasthuri Jayarajah, Archan Misra, Eugene: Towards Deep Intelligence as a Service, The 39th
 IEEE International Conference on Distributed Computing Systems (ICDCS 2019), Dallas,
 Texas USA. July 7–10, 2019.
- COMPUTER Peng Liu, **Shaohan Hu**, Marco Pistoia, Chun-Fu Richard Chen, Jay Gambetta, 2019B Stochastic Optimization of Quantum Programs, IEEE Computer, Volume 52 Number 06, June, 2019.
- COMPUTER Shaohan Hu, Peng Liu, Chun-Fu Richard Chen, Marco Pistoia, Jay Gambetta, 2019A Reduction-based Problem Mapping for Quantum Computing, IEEE Computer, Volume 52 Number 06, June, 2019.
- DAC
 Shaohan Hu, Dmitri Maslov, Marco Pistoia, and Jay Gambetta, Efficient Circuits
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- WWW Shuochao Yao, Ailing Piao, Wenjun Jiang, Yiran Zhao, Huajie Shao, Shengzhong Liu, Dongxin Liu, Jinyang Li, Tianshi Wang, **Shaohan Hu**, Lu Su, Jiawei Han, Tarek Abdelzaher, STFNets: Learning Sensing Signals from the Time-Frequency Perspective with Short-Time Fourier Neural Networks, The Web Conference (WWW 2019), San Francisco, CA USA, May 13–17, 2019.
- INFOCOM Shuochao Yao, Yiran Zhao, Huajie Shao, Dongxin Liu, Shengzhong Liu, Yifan 2019 Hao, Ailing Piao, **Shaohan Hu**, Lu Su, Tarek Abdelzaher, SADeepSense: Self-Attention Deep Learning Framework for Heterogeneous On-Device Sensors in Internet of Things Applications, The 38th IEEE International Conference on Computer Communications (INFOCOM 2019), Paris, France, April 29–May 2, 2019.
- IMWUT Shuochao Yao, Yiran Zhao, Huajie Shao, Chao Zhang, Aston Zhang, **Shaohan Hu**, 2018 Dongxin Liu, Shengzhong Liu, Lu Su, Tarek F. Abdelzaher, SenseGAN: Enabling Deep Learning for Internet of Things with a Semi-Supervised Framework, Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Volume 2 Issue 3, Article No. 144, Presented at UbiComp, Singapore, September, 2018. Presented at UbiComp, Singapore, October 9–11, 2018.
- ICSE Shaohan Hu, Peng Liu, Chun-Fu Richard Chen, Marco Pistoia, Automatically Solving NP-Complete Problems on a Quantum Computer, The 40th International Conference on Software Engineering (ICSE 2018) Posters, Gothenburg, Sweden, May 27–June 3, 2018.

- EMDL Shuochao Yao, Yiran Zhao, **Shaohan Hu**, Tarek F. Abdelzaher, *QualityDeepSense*: 2018 Quality-Aware Deep Learning Framework for Internet of Things Applications with Sensor-Temporal Attention, The 2nd International Workshop on Embedded and Mobile Deep Learning (EMDL 2018), Munich, Germany, June 15, 2018.
- COMPUTER Shuochao Yao, Yiran Zhao, Aston Zhang, **Shaohan Hu**, Huajie Shao, Chao Zhang, 2018 Lu Su, Tarek Abdelzaher, *Deep Learning for the Internet of Things*, IEEE Computer, Volume 51 Number 05, May, 2018.
- Wenjun Jiang, Chenglin Miao, Lu Su, Qi Li, Shaohan Hu, Shiguang Wang, Jing
 Gao, Hengchang Liu, Tarek F. Abdelzaher, Jiawei Han, Xue Liu, Yan Gao, Lance
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- JSAN Jongdeog Lee, Kelvin Marcus, Tarek Abdelzaher, Md Tanvir A. Amin, Amotz Bar2018 Noy, William Dron, Ramesh Govindan, Reginald Hobbs, **Shaohan Hu**, Jung-Eun
 Kim, Lui Sha, Shuochao Yao, and Yiran Zhao, *Athena: Towards Decision-Centric*Anticipatory Sensor Information Delivery, Journal of Sensor and Actuator Networks
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- IMWUT Yiran Zhao, Shuochao Yao, Shen Li, **Shaohan Hu**, Huajie Shao, Tarek Abdelzaher, 2017 *VibeBin: A Vibration-Based Waste Bin Level Detection System*, Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Volume 1 Issue 3, Article No. 122, Presented at UbiComp, Maui, HI USA, September, 2017.
- TCPS Hongwei Wang, Yunlong Gao, **Shaohan Hu**, Shiguang Wang, Renato Mancuso, 2017 Minje Kim, Poliang Wu, Lu Su, Lui Sha, Tarek Abdelzaher, *On Exploiting Structured Human Interactions to Enhance Sensing Accuracy in Cyber-physical Systems*, ACM Transactions on Cyber-Physical Systems (IEEE TCPS), Volume 1, Number 3, July, 2017.
- ICDCS Tarek Abdelzaher, Md Tanvir Al Amin, Amotz Bar-Noy, William Dron, Ramesh
 2017 Govindan, Reginald Hobbs, Shaohan Hu, Jung-Eun Kim, Jongdeog Lee, Kelvin Marcus, Shuochao Yao and Yiran Zhao, Decision-driven Execution: A Distributed Resource Management Paradigm for the Age of IoT, The 37th International Conference on Distributed Computing Systems (ICDCS 2017), Atlanta, GA USA. June 5–8, 2017.
- ICDCS Shen Li, Md Tanvir Al Amin, Raghu Ganti, Mudhakar Srivatsa, **Shaohan Hu**, 2017 Yiran Zhao and Tarek Abdelzaher, *Stark: Optimizing In-Memory Computing For Dynamic Dataset Collections*, The 37th International Conference on Distributed Computing Systems (ICDCS 2017), Atlanta, GA USA, June 5–8, 2017.
- VTC Yunfei Hou, Abhishek Gupta, Tong Guan, **Shaohan Hu**, Lu Su, Chunming Qiao, 2017 *VehSense: Slippery Road Detection Using Smartphones*, The IEEE 85th Vehicular Technology Conference (VTC 2017), Sydney, Australia, June 4–7, 2017.
- TMC Chao Xu, **Shaohan Hu**, Wei Zheng, Tarek F. Abdelzaher, Pan Hui, Zhiheng Xie, 2017 Hengchang Liu, and John Stankovic, *Efficient 3G/4G Budget Utilization in Mobile Sensing Applications*, IEEE Transactions on Mobile Computing (IEEE TMC), Volume 16, Number 6, June, 2017.
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- WWW Shuochao Yao, **Shaohan Hu**, Yiran Zhao, Aston Zhang, Tarek Abdelzaher, 2017 DeepSense: A Unified Deep Learning Framework for Time-Series Mobile Sensing Data Processing, The 26th International International World Wide Web Conference (WWW 2017), Perth, Australia, April 3–7, 2017.
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- IPSN Shuochao Yao, Md Tanvir Amin, Lu Su, **Shaohan Hu**, Shen Li, Shiguang Wang, Yi2016 ran Zhao, Tarek Abdelzaher, Lance Kaplan, Charu Aggarwal, Aylin Yener, *Recursive*Ground Truth Estimator for Social Data Streams, The 15th ACM/IEEE International
 Conference on Information Processing in Sensor Networks (IPSN 2016), Vienna, Austria,
 April 11–14, 2016.
- TMC Fatemeh Saremi, Omid Fatemieh, Hossein Ahmadi, Hongyan Wang, Tarek Abdelza-2016A her, Raghu Ganti, Hengchang Liu, **Shaohan Hu**, Shen Li, Lu Su, *Experiences with GreenGPS – Fuel-Efficient Navigation using Participatory Sensing*, IEEE Transactions on Mobile Computing (IEEE TMC), Volume 15, Number 3, March 2016.
- RTSS Shaohan Hu, Shuochao Yao, Haiming Jin, Yiran Zhao, Yitao Hu, Xiaochen Liu, 2015 Nooreddin Naghibolhosseini, Shen Li, Akash Kapoor, William Dron, Lu Su, Amotz Bar-Noy, Pedro Szekely, Ramesh Govindan, Reginald Hobbs, Tarek F. Abdelzaher, Data Acquisition for Real-time Decision-making under Freshness Constraints, The 36th IEEE Real-Time Systems Symposium (RTSS 2015), San Antonio, TX USA, December 1–4, 2015.
- JRTS Dong Wang, Tarek Abdelzaher, Lance Kaplan, Raghu Ganti, **Shaohan Hu**, 2015 Hengchang Liu, *Reliable Social Sensing with Physical Constraints: Analytic Bounds and Performance Evaluation*, Journal of Real-Time Systems, Volume 51, Number 6, November, 2015.
- UBICOMP Shaohan Hu, Lu Su, Shen Li, Shiguang Wang, Chenji Pan, Siyu Gu, Md Tanvir 2015 Amin, Hengchang Liu, Suman Nath, Romit Roy Choudhury, Tarek F. Abdelzaher, Experiences with eNav: A Low-power Vehicular Navigation System, The ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2015), Osaka, Japan, September 7–11, 2015.
- ATC 2015 Shen Li, **Shaohan Hu**, Raghu Ganti, Mudhakar Srivatsa, Tarek Abdelzaher, Pyro: A Spatial-Temporal Big-Data Storage System for Dynamic Workload Hotspots, USENIX Annual Technical Conference (USENIX ATC 2015), Santa Clara, CA USA, July 8–10, 2015.

- TOSN Shaohan Hu, Lu Su, Hengchang Liu, Hongyan Wang, Tarek F. Abdelzaher, 2015 SmartRoad: Smartphone-based Crowd Sensing for Traffic Regulator Detection and Identification, ACM Transactions on Sensor Networks (ACM TOSN), Volume 11, Number 4, July 2015.
- DCOSS Shaohan Hu, Shen Li, Shuochao Yao, Lu Su, Ramesh Govindan, Reginald Hobbs, 2015 Tarek F. Abdelzaher, On Exploiting Logical Dependencies for Minimizing Additive Cost Metrics in Resource-Limited Crowdsensing, The 11th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2015), Fortaleza, Brazil, June 10–12, 2015.
- IPSN Shiguang Wang, Lu Su, Shen Li, **Shaohan Hu**, Tanvir Amin, Hongwei Wang, 2015 Shuochao Yao, Lance Kaplan, Tarek Abdelzaher, *Scalable Social Sensing of Inter-dependent Phenomena*, The 14th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2015), Seattle, WA USA, April 13–17, 2015.
- RTAS Shen Li, **Shaohan Hu**, Tarek Abdelzaher, *The Packing Server for Real-time* 2015 Scheduling of MapReduce Workflows, The 21st IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS 2015), Seattle, WA USA, April 13–16, 2015.
- ICCPS
 Yunlong Gao, Shaohan Hu, Renato Mancuso, Hongwei Wang, Minje Kim, PoLiang
 Wu, Lu Su, Lui Sha, Tarek Abdelzaher, Exploiting Structured Human Interactions
 to Enhance Estimation Accuracy in Cyber-physical Systems, The 6th International
 Conference on Cyber-Physical Systems (ICCPS 2015), Seattle, WA USA, April 14–16,
 2015.
- RTSS Lu Su, Qi Li, **Shaohan Hu**, Shiguang Wang, Jing Gao, Hengchang Liu, Tarek 2014 Abdelzaher, Jiawei Han, Xue Liu, Yan Gao, Lance Kaplan, *Generalized Decision Aggregation in Distributed Sensing Systems*, The 35th IEEE Real-Time Systems Symposium (RTSS 2014), Rome, Italy, December 2–5, 2014.
- ICDCS Shen Li, **Shaohan Hu**, Shiguang Wang, Lu Su, Tarek F. Abdelzaher, Indranil 2014 Gupta, Richard Pace, WOHA: Deadline-Aware Map-Reduce Workflow Scheduling Framework over Hadoop Cluster, The 34th International Conference on Distributed Computing Systems (ICDCS 2014), Madrid, Spain. June 30–July 3, 2014.
- ICAC Shen Li, **Shaohan Hu**, Shiguang Wang, Siyu Gu, Chenji Pan, Tarek F. Abdelzaher, 2014 Watt Valet: Heterogenous Energy Storage Management in Data Centers for Improved Power Capping, The 11th International Conference on Autonomic Computing (ICAC 2014), Philadelphia, PA USA, June 18–20, 2014.
- DCOSS Siyu Gu, Chenji Pan, Hengchang Liu, Shen Li, **Shaohan Hu**, Lu Su, Shiguang Wang, Dong Wang, Md Tanvir A Amin, Ramesh Govindan, Charu Aggarwal, Raghu Ganti, Mudhakar Srivatsa, Amotz Bar-Noy, Peter Terlecky, Tarek Abdelzaher, *Data Extrapolation in Social Sensing for Disaster Response*, The 10th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2014), Marina Del Rey, CA USA, May 26–28, 2014.
- INFOCOM

 Shaohan Hu, Hengchang Liu, Lu Su, Hongyan Wang, Tarek F. Abdelzaher, Pan

 Hui, Wei Zheng, Zhiheng Xie, John Stankovic, Towards Automatic Phone-to-Phone

 Communication for Vehicular Networking Applications, The 33rd IEEE International

 Conference on Computer Communications (INFOCOM 2014), Toronto, Canada, April

 27–May 2, 2014.

- IPSN
 2014
 Shaohan Hu, Lu Su, Shen Li, Shiguang Wang, Chenji Pan, Siyu Gu, Md Tanvir Al
 Amin, Hengchang Liu, Suman Nath, Romit Roy Choudhury, Tarek F. Abdelzaher,
 Poster Abstract: eNav a Smartphone-based Energy Efficient Vehicular Navigation
 System, The 13th ACM/IEEE International Conference on Information Processing in
 Sensor Networks (IPSN 2014), Berlin, Germany, April 15–17, 2014. (Best poster award)
- PUC Nicholas D. Lane, Ye Xu, Hong Lu, **Shaohan Hu**, Tanzeem Choudhury, Andrew T. Campbell, Feng Zhao, *Community Similarity Networks*, ACM/Springer Journal of Personal and Ubiquitous Computing (PUC), Special Issue on Cross-Community Mining, February, 2014.
- RTSS Dong Wang, Tarek F. Abdelzaher, Lance Kaplan, Raghu Ganti, **Shaohan Hu**, 2013 Hengchang Liu, *Exploitation of Physical Constraints for Reliable Social Sensing*, The 34th IEEE Real-Time Systems Symposium (RTSS 2013), Vancouver, Canada, December 4–6, 2013.
- SENSYS Hengchang Liu, Siyu Gu, Chenji Pan, Wei Zheng, Shen Li, **Shaohan Hu**, Shiguang 2013 Wang, Dong Wang, Tanvir Amin, Lu Su, Zhiheng Xie, Ramesh Govindan, Charu Aggarwal, Amotz Barnoy, Tarek F. Abdelzaher, *Demo Abstract: Extrapolation from Participatory Sensing Data*, The 11th ACM Conference on Embedded Networked Sensor Systems (SenSys 2013), Rome, Italy, November 11–15, 2013.
- ICCCN Shiguang Wang, Shaohan Hu, Shen Li, Hengchang Liu, Md Yusuf Sarwar Uddin,
 and Tarek F. Abdelzaher, MINERVA: Information-Centric Programming for Social Sensing, The 22nd International Conference on Computer Communications and Networks (ICCCN 2013), Nassau, Bahamas, July 30-August 2, 2013.
- ICDCS Shen Li, Shiguang Wang, Fan Yang, **Shaohan Hu**, Fatemeh Saremi, Tarek F. Abdelzaher, *Proteus: Power Proportional Memory Cache Cluster in Data Centers*, The 33rd International Conference on Distributed Computing Systems (ICDCS 2013), Philadelphia, PA USA, July 8–11, 2013.
- INFOCOM Hengchang Liu, **Shaohan Hu**, Wei Zheng, Zhiheng Xie, Shiguang Wang, Pan Hui, and Tarek F. Abdelzaher, *Efficient 3G Budget Utilization in Mobile Participatory Sensing Applications*, The 32nd IEEE International Conference on Computer Communications (INFOCOM 2013), Turin, Italy, April 14–19, 2013.
- IPSN
 Shaohan Hu, Lu Su, Hengchang Liu, Hongyan Wang, Tarek F. Abdelzaher, Poster
 2013
 Abstract: SmartRoad: A Crowd-Sourced Traffic Regulator Detection and Identification System, The 12th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2013), Philadelphia, PA USA, April 8–11, 2013.
- RTSS Lu Su, **Shaohan Hu**, Shen Li, Feng Liang, Jing Gao, Tarek F. Abdelzaher, and Ji-2012 awei Han, *Quality of Information based Data Selection and Transmission in Wireless* Sensor Networks, The 33rd IEEE Real-Time Systems Symposium (RTSS 2012), San Juan, Puerto Rico, December 4–7, 2012.
- UBICOMP Nicholas D. Lane, Ye Xu, Hong Lu, **Shaohan Hu**, Tanzeem Choudhury, Andrew T. Campbell, and Feng Zhao, Enabling Large-scale Human Activity Inference on Smartphones using Community Similarity Networks (CSN), The 13th International Conference on Ubiquitous Computing (UbiComp 2011), Beijing, China, September 17–21, 2011. (Best paper nominee)
- MOBIHELD Andrew T. Campbell, Tanzeem Choudhury, **Shaohan Hu**, Hong Lu, Matthew K. 2010 Mukerjee, Mashfiqui Rabbi, and Rajeev D. S. Raizada, *NeuroPhone: Brain-Mobile Phone Interface using a Wireless EEG Headset*, The 2nd ACM SIGCOMM Workshop on Networking, Systems, and Applications on Mobile Handhelds (MobiHeld 2010), New Delhi, India, August 30, 2010.

PAKDD 2010

Pallika Kanani, Andrew McCallum and **Shaohan Hu**, Resource-bounded Information Extraction: Acquiring Missing Feature Values On Demand, The 14th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2010), Hyderabad, India. June 21–24, 2010. (Best student paper runner-up award)

PATENTS	US10832173 Cognitive Software Development	GRANTED, 2020
	US10831495 Parallelization of Numeric Optimizers	GRANTED, 2020
	US10803395 Quantum Computations of Classical Specifications	GRANTED, 2020
	US10637480 Multi-control Quantum State Inversion Gate	GRANTED, 2020
	US10713055 Parallelization of Numeric Optimizers	GRANTED, 2020
	US20200342293 Quantum Computational Method and Device	FILED, 2019
	US20200042882 Monte Carlo Markov Chain based Quantum Program Optimization	FILED, 2018
	US20190220782 Simplified Quantum Programming	FILED, 2019
	US20200202247 Adaptive Quantum Circuit Construction for Multiple-Controlled-Not Gates	FILED, 2018
	US20200183938 Automatic Quantum Searching of Object Database	FILED, 2018

Teaching

University of Illinois at Urbana-Champaign

• Teaching Assistant

 $Quantum\ Algorithm\ Concatenation$

CS 125: Introduction to Computer Science Basic Data Structure, Algorithm, OOP using Java

Dartmouth College

US20200097859

• Teaching Assistant

CS 23: Software Design and Implementation — or, how to be a hacker Linux Bash scripting, design and implementation using C: web search (data crawling, indexing, and querying), and embedded Linux environment distributed concurrent system (remote robot control system)

filed, 2018

• Teaching Assistant

CS 8: Problem Solving with Computer Science Functional programming, Haskell language

• Teaching Assistant

CS 5: Introduction to Computer Science Basic Data Structure, OOP using Java

• Teaching Assistant

CS 4: Concepts in Computing

Overview of computing and computer science, basic programming using html/css/javascript, debugging, design

University of Massachusetts at Amherst

• Teaching Assistant

Math 300: Fundamental Concepts of Mathematics Discrete mathematics, number theory, logics, set theory, rigorous proofs

• Teaching Assistant

CS 311: Introduction to Algorithms

Basic algorithm design, analysis, and implementations, sorting, searching, string processing, graphs

Awards and Honors

ICCPS Best Paper Award, April 2017

IPSN Best Poster Award, April 2014

Teachers Rated Excellent, Department of Computer Science, UIUC, March 2012

UbiComp Best Paper Nominee, September 2011

Best TA, Department of Computer Science, Dartmouth College, September 2010

PAKDD Best Student Paper Runner-up, June 2010

Outstanding Graduate Student Teacher, Dartmouth Center for the Advancement of Learning, Dartmouth College, April 2010

CSEM (Computer Science, Engineering and Mathematics) Scholarship, UMass Amherst, January 2005–May 2008

Dean's List Honors, UMass Amherst, January 2005–May 2008

Barksdale Scholarship, UMass Amherst, March 2007

First Place Winner, Henry Jacob Mathematics Competition, UMass Amherst, March 2006

Second Place Winner, Henry Jacob Mathematics Competition, UMass Amherst, March 2005

WORK AUTHORIZATION U.S. Citizen