

# Junde Li

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## EDUCATION

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<b>Pennsylvania State University</b>	<b>Jan. 2019 – Present</b>
PhD student in Computer Science and Engineering	
Advisor: Swaroop Ghosh	
<b>City University of Hong Kong</b>	<b>Oct. 2016</b>
MSc in Engineering Management	
<b>Qingdao University</b>	<b>Jun. 2015</b>
BSc in Logistics Management	

## RESEARCH INTERESTS

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**Autonomous Systems, Quantum Computing.** I am interested in machine learning, computer vision, autonomous driving, robotics, quantum computing, and their interaction for hybrid quantum-classical optimization, and quantum machine learning.

## RESEARCH EXPERIENCE

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<b>Matrix Auto Technology Ltd</b>	10/2018 – 12/2018
<i>A.I. Software Engineer (Autonomous Driving)</i>	<i>Hong Kong</i>
MAT is a startup company providing self-driving car solutions and services.	
Advisor: Jean Lam	
<b>ASM Pacific Technology Ltd</b>	07/2018 – 10/2018
<i>Process Engineer (R&amp;D)</i>	<i>Hong Kong</i>
ASMP is a leading integrated solution provider in semiconductor and electronics industries.	
Advisor: Damon Deng, Pak Kin Leung	
<b>City University of Hong Kong</b>	07/2016 – 12/2018
<i>P/T Research Assistant</i> , in Department of System Engineering and Engineering Management	<i>Hong Kong</i>
Advisor: Alan Chan	

## PUBLICATIONS

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- J. Li, M. Alam, A. Ash-Saki, S. Ghosh.** (2020). Hierarchical Improvement of Quantum Approximate Optimization Algorithm for Object Detection. International Symposium on Quality Electronic Design. (Invited paper)
- J. Li, N. Gattu, S. Ghosh.** FAuto: An Efficient GMM-HMM FPGA Implementation for Behavior Estimation in Autonomous Systems. Transactions on Design Automation of Electronic Systems (TODAES). (Under Review)
- J. Li, Q. Ma, A. Chan, & S. Man.** (2019). Health Monitoring through Wearable Technologies for Older Adults: Smart Wearables Acceptance Model. Applied Ergonomics. (2019) 162-169.

## TEACHING EXPERIENCE

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### **Pennsylvania State University**

*Teaching Assistant* for CMPSC 360 Discrete Mathematics  
Hold weekly recitations and office hours

Spring & Fall 2019  
*State College, PA*

## HONORS AND AWARDS

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Self-driving Car Nanodegree (Computer Vision and Deep Learning), Udacity	2018
Distinction, City University of Hong Kong	2016
Excellent Student Award, Qingdao University	2013
Third-class Scholarships, Qingdao University	2011-2013

## TECHINICAL SKILLS

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<b>Computer Languages:</b>	Python, MATLAB, C++, Verilog
<b>Tools:</b>	Tensorflow, Caffe, OpenCV, Linux Shell, High-level Synthesis