Chuanhao Li

Rice 224, University of Virginia, Charlottesville, VA 22904
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SKILLS

Programming	Python, Java, C/C++, MATLAB, LaTex, TensorFlow/Keras, ROS
Mathematics	Linear Algebra, Probability & Statistics, Concentration Inequalities Statistical Hypothesis Testing, Probabilistic Graphical Models Convex Optimization, Tensor Decomposition
Machine Learning	Machine learning, Deep Neural Networks, Multi-armed bandits, Reinforcement Learning

EDUCATION

University of Virginia, Charlottesville, US *Aug 2018 - Now*

PhD student in Computer Science

Courses: Convex Optimization, Autonomous Mobile Robots, Statistical Learning & Graphical Models, Tensor Decomposition, Text Mining, Learning & Game Theory

Harbin Institute of Technology, Harbin, China *June 2018*

MS in Mechatronics Engineering GPA: 86/100, rank: 4/34

Courses: Robotics, Deep Learning, Computer Control of Mechatronics Systems, Control Theory, System Modeling and Simulation, Numerical Analysis, Digital Signal Processing

Harbin Institute of Technology, Harbin, China *June 2016*

BA in English & BS in Mechanical Engineering GPA: 92.86 & 83.51/100, rank: 1/14

Monash University, Melbourne, Australia *July 2015*

Exchange Student GPA: 3.5/4

RESEARCH EXPERIENCE

School of Engineering and Applied Science, University of Virginia (UVA)

Graduate Research Assistant *Winter 2018 - Now*

Advisor: Prof. Hongning Wang

- Linear Bandits in Non-stationary and Clustered Environment

Graduate Research Assistant *Fall 2018 – Winter 2018*

Advisor: Prof. Feng Lu

- Sequential Decision Making with Constraints with Application to Robotics

Advertising Technology Data Science Team, Walmart Labs

Research Intern *Summer 2020*

Mentor: Dr. Bo Meng, Manager: Dr. Peng Yang

- Online Grocery User Sequential Modeling

School of Mechatronics Engineering, Harbin Institute of Technology (HIT)

Graduate Research Assistant *Spring 2016 – Summer 2018*

Advisor: Prof. Gaoliang Peng and Prof. Shaohui Liu

- RGBD Based Planar Robot Grasp Pose Detection
- Data-driven Bearing Health Monitoring

Connected Driving Experience Research Group, General Motors China Science Lab

Research Intern *Summer 2017*

Manager: Dr. Xiaowen Dai, Lab Director: Dr. Jiangling Du

- Visual Scene Understanding for Autonomous Vehicles

PUBLICATIONS

- **Li, C.**, Zhang, W.E.I., Peng, G. and Liu, S., 2017. Bearing fault diagnosis using fully-connected winner-take-all autoencoder. IEEE Access, 6, pp.6103-6115.
- Zhang, W., **Li, C.**, Peng, G., Chen, Y. and Zhang, Z., 2018. A deep convolutional neural network with new training methods for bearing fault diagnosis under noisy environment and different working load. Mechanical Systems and Signal Processing, 100, pp.439-453.
- Zhang, W., Peng, G., **Li, C.**, Chen, Y. and Zhang, Z., 2017. A new deep learning model for fault diagnosis with good anti-noise and domain adaptation ability on raw vibration signals. Sensors, 17(2), p.425.
- Peng, G., Sun, Y., Han, R. and **Li, C.**, 2016. An automated assembly technology for large mobile radar antenna. Assembly Automation, 36(4), pp.429-438.
- Peng, G., Sun, Y., Han, R., **Li, C.** and Liu, S., 2016. A measuring method for large antenna assembly using laser and vision guiding technology. Measurement, 92, pp.400-412.

Google Scholar Profile

TEACHING

Teaching Assistant, Reinforcement Learning *Fall 2020*

Teaching Assistant, Software Analysis and Applications *Spring 2020*

Teaching Assistant, Data Structures and Algorithms I *Fall 2019*