

Qi Li

Personal Data

Name	Qi Li	Nationality	P.R. China
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Education Background

- **M.E. in Control Theory and Control Engineering, [Soochow University \(SUDA\)](#)**
Overall GPA: 3.86/4.0 Rank: top 1% Sep.2019~Present
Supervisor: Prof. Liang Chen & Prof. Changqing Shen
- **B.E. in Electrical Engineering, [Soochow University \(SUDA\)](#) (211 project)**
Overall GPA: 3.7/4.0 Rank: top 10% Sep.2015~Jul.2019

Research Publication

- [1] L. Chen (Supervisor), **Q. Li**, C. Shen et al. “Adversarial domain-invariant generalization: a generic domain-regressive framework for bearing fault diagnosis under unseen conditions,” IEEE Trans. Ind. Informatics., accepted, 2021. (JCR Q1, Impact Factor: 10.215)
- [2] **Q. Li**, C. Shen, L. Chen, et al. “Knowledge mapping-based adversarial domain adaptation: A novel fault diagnosis method with high generalizability under variable working conditions,” Mech. Syst. Signal Process., vol. 147, 2021. (JCR Q1, Impact Factor: 6.823)
- [3] **Q. Li**, L. Chen, C. Shen et al. “Enhanced generative adversarial networks for fault diagnosis of rotating machinery with imbalanced data,” Meas. Sci. Technol., vol. 30, no. 11, 2019. (JCR Q3)
- [4] **Q. Li**, S. Liu, B. Yang, Y. Xu, L. Chen, and C. Shen, “Adversarial multi-domain adaptation for machine fault diagnosis with variable working conditions,” 2020 IEEE 18th International Conference on Industrial Informatics (INDIN), 2020, pp. 737-741.
- [5] B. Yang, **Q. Li**, L. Chen et al. “Bearing Fault Diagnosis Based on Multilayer Domain Adaptation,” Shock Vib., 2020.

Research Project

- 2019~Present **Graduate Research Assistant**, in the project “Research on Deep Transfer Learning Method for Health State Recognition of Rotating Machinery under Variable Working Conditions” (The National Natural Science Foundation of China, Grant No. 51875375)
Supervisor: Prof. Liang Chen & Prof. Changqing Shen
Personal Responsibility:
- 1) Conducting a research and investigation process;
 - 2) Implementation of the diagnosis code based on Pytorch;
 - 3) Creation of bearing fault diagnosis models under variable working conditions;
 - 4) Multi-source bearing signal processing from different working conditions;
 - 5) Achieving an adversarial domain generalization diagnosis model;
 - 6) Writing the initial manuscripts and the published works.
- 2018~2019 **Research Assistant**, in the project “Research on Feature Deep Learning and Condition Monitoring of Variable Scale Morphological Filtering Signal for Mechanical Equipment” (The National Natural Science Foundation of China, Grant No. 51505311)

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Supervisor: Prof. Liang Chen & Prof. Changqing Shen

Personal Responsibility:

- 1) Extracting effective information of the bearing in a noisy environment;
- 2) Feature extraction of bearing based on convolutional neural network.

2017~2019

Principal Investigator, in the innovation and entrepreneurship project of college students in Jiangsu Province, "Multi-modal Feature Identification and Diagnosis of Mechanical Fault Based on GANs" (The project was awarded as an outstanding project.)

Supervisor: Prof. Liang Chen & Prof. Changqing Shen

Personal Responsibility:

- 1) Arranging research progress; Project and model design;
- 2) Data collection of mechanical bearing faults; Preprocessing of bearing vibration signal;
- 3) Programming based on Pytorch; Creation of the initial manuscript and the published work.

Award & Honors

2020~2021

Outstanding Student Cadre of Jiangsu Province.
Outstanding postgraduate cadre of Soochow University.
Best 3-minute thesis presentation of UWA (University of West Australia).
Special Partner Scholarships under UWA Research Skills Fundamentals Program.
National Scholarship by Ministry of Education of China.

2019~2020

Outstanding postgraduate of Soochow University.
Special award of graduate academic scholarship.
Honorable Mention of the China Mathematical Modeling International Competition.

2018~2019

Outstanding graduate of Soochow University.
National Encouragement scholarship.

2017~2018

Outstanding student cadres of Soochow University.
Third prize of Jiangsu Higher Mathematics Competition.

2016~2017

Comprehensive Award of Soochow University.
Outstanding student cadres of Soochow University.
Third Prize in Higher Mathematics Competition of Soochow University.

2015~2016

Comprehensive Award of Soochow University.
Excellent first-class learning scholarships.
Social Work Award of Soochow University.
Enterprise Endowment Scholarship of Soochow University.

Social Activity

2019 ~ 2021

Deliver a speech at the opening ceremony of *SUDA* as a graduate student representative.
Class president of graduate students.
Soochow University Marathon*2 (Ranking 13/671 in 2019; Ranking 23/613 in 2020).

2017~2019

Vice Chairman of Mental Health Association of Soochow University.

Others

Skills: CET6 (490), Python, MATLAB, Pytorch, TensorFlow, Visual C, Office, PLC.

Hobby: Marathon, Positive Psychology, Workout.