

YULIN. MA

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OBJECTIVE

This is a temporary CV and I'll update in the next months.

EDUCATION

M.E., Safety Engineering, China University of Petroleum, Beijing	Sep. 2017 – Jun. 2020
Cumulative GPA: 3.72 / 4.0	Beijing, China
B.S., Safety Engineering, Qingdao University of Science and Technology	Sep. 2013 – Jun. 2017
Cumulative GPA: 3.84 / 4.0	Qingdao, China

PROFESSIONAL EXPERIENCE

Research on Intelligent Diagnosis Mechanism and Pre-warning Method of Petrochemical Equipment based on Digital Twin	Oct. 2018 – Jun. 2020
<ul style="list-style-type: none">■ Researched multi-source signal fusion methodologies■ Analyzed vibration signals and extracted fault features■ Investigated machine learning and deep learning methods for fault diagnosis	
Design and Develop Condition Monitoring Client Software for Oil Pump Units	Jul. 2017 – Jun. 2020
<ul style="list-style-type: none">■ Developed safety evaluation and equipment management module■ Developed vibration signal analysis and fault diagnosis module■ Managed Mysql database and conducted database synchronization	
Research on Fault Diagnosis systems for Natural Gas Compressors	Mar. 2019 – Jun. 2020
<ul style="list-style-type: none">■ Surveyed 7 key compressor stations of Sichuan-East natural gas pipeline■ Built signal acquisition systems based on Beckhoff to collect vibration signals■ Conducted database analysis of Bently 3500 condition monitoring system	

LEADERSHIP ACTIVITIES

■ Research Assistant of Sense to Safety Lab	Sep. 2017 – Present
■ Group Leader of Undergraduate Innovation Experimental Program	Sep. 2016 – Jun. 2017
■ Department Vice-President of Undergraduate Student Union	Jun. 2014 – Sep. 2016

AWARDS & HONORS

■ National Graduate Scholarship	Sept. 2019
■ Excellent Graduate Student of China University of Petroleum, Beijing	Sept. 2018
■ Third Prize of National Graduate Student Mathematical Contest in Modeling	Dec. 2017 and 2018
■ Honorable Mention in Interdisciplinary Contest in Modeling (USA)	Jan. 2016
■ First Prize of Shandong Division in National Undergraduate Student Mathematical Contest in Modeling	Nov. 2015

PUBLICATIONS

- Jinjiang Wang, **Yulin Ma**, Laibin Zhang, Dazhong Wu, R.X. Gao, Deep Learning for Smart Manufacturing: Methods and Applications. Journal of Manufacturing Systems, 2018, 48: 144-156.
- Jinjiang Wang, **Yulin Ma**, Zuguang Huang, Ruijuan Xue, Rui Zhao, Performance Analysis and Enhancement of Deep Convolutional Neural Network: Application to Gearbox Condition Monitoring. Business & Information System Engineering, 2019, 61(3): 311-326.