CV

PERSONAL INFORMATION

Name: Yangyang Liu

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Graduate: China University of Petroleum-Beijing (CUP)   Degree: Master degree

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PERSONAL PROFILE

I have studied "Numerical Analysis", "Random Process", "Optimization Theory", "Linear Algebra", "Computer Network", "Data Structures" and other courses. I am proficient in C++, JAVA, python, Matlab, and other programming languages. I have a strong self-learning ability, and I can learn new knowledge quickly. And I can complete new tasks assigned by teachers efficiently. In addition, I have a strong sense of team and can obey the task arrangement of the team.

Research Interests: Computer Vision, Graph neural networks, machine learning, contrast learning, Reinforcement learning.

Education

Master degree	**China University of Petroleum (Beijing) (2020.9~2023.6)** ➢ List of "Double First-Class" University Project、Project 211 ➢ Major: School of Information Science and Engineering, Control Science and Engineering ➢ GPA: **4/27** ➢ Awards and Honors: First Prize of Academic Scholarship (2021.9), Promotion and Exemption Scholarship of China University of Petroleum (Beijing) (2020.9) ➢ Mentor: Jian-wei Liu [home page] ➢ Awards:The third prize of China Graduate Mathematical Modeling Competition in 2021
Bachelor degree	**China University of Petroleum (Beijing) (2016.9~2020.6)** ➢ Major: Software Engineering，College of Petroleum ➢ Rankings: **2/58**; GPA: 3.76/5.0 ➢ Awards: First Prize of Academic Scholarship (September, 2019), First Prize of Academic Scholarship (September, 2018), First Prize of Academic Scholarship (September, 2017.9) ➢ Honors: "Advanced individual in scientific and technological innovation"、"Merit Student" and "Excellent League Member" Awarded by SCUEC ➢ competition: Second prize of Lanqiao Cup Program Design Competition in Provincial Competition, third prize of the 10th Chinese College Students Computer Design Competition (Internet of Things Group) and so on

Publications

(1) *An attempt to apply the homotopy method to the domain of machine learning*
Yang-yang Liu，Jian-wei Liu
Expert Systems with applications, **Q1(SCI)** (manuscripts).

(2) *The Time-sequence Prediction via Temporal and Contextual Contrastive Representation Learning*
Yang-yang Liu，Jian-wei Liu
PRICAI2022 (CCF C) (manuscripts).

(3) *Span-based Boundary-Aware Model for Named Entity Recognition*
Zhi-yuan Chang, **Yang-yang Liu**, Shou-bin Li, Shao-qun Pan
IEEE ACCESS, **Q2(SCI)** (manuscripts).
(4) *Quality Analysis of high-density polyethylene based on Intelligent*
Shoubin Li, Xuhui Zhan, **Yang-yang Liu**, Chong Tang, Jia-nan Wang, Jian-wei Liu
Industrial Artificial Intelligence, (manuscripts).

Patents

(1) A deep learning based detection and identification system and method for polyethylene particle defects
Guo-wen Chen, **Yang-yang LIU**, Zhen-yu Wang
National invention patent, Patent Number: CN112837311A
(2) Heald filament separation detection system and Method based on self-learning mode
Shou-bin Li, Chong TANG, **Yang-yang LIU**
National invention patent, Patent Number: CN110865084A

Other Project

(1) Research on automatic extraction model of key information of petrochemical scientific literature
Algorithm engineer
Horizontal project of Internet Software Technology Laboratory, Institute of Software, Chinese Academy of Sciences
(2) Knowledge extraction model
Member
Horizontal project of Internet Software Technology Laboratory, Institute of Software, Chinese Academy of Sciences
(3) Intelligent electronic access control
Project Leader
University Student Science and Technology Innovation Project of China University of Petroleum (Beijing)

Intership

2018.09 - 2019.02	**Institute of Software, Chinese Academy of Sciences, internship**
	My main work is engaging in face data labelling, face photo data cleaning, and face detection model training.
Since 2021.06	**Institute of Software, Chinese Academy of Sciences, internship**
	During this period, my main work is information extraction. I completed two projects: "Knowledge Extraction Model" and "Research on automatic extraction model of key information of petrochemical scientific literature".