RESUME

PERSONAL INFORMATION

Name: Yangyang Liu [home page]

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Email: yangyang-liu@student.cup.edu.cn

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 can quickly learn new knowledge. And I can complete tasks assigned by teachers efficiently. In addition, I have a strong sense of team and can obey the task arrangement of the group.

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 Projects、Project **211**

➢ Major: School of Information Science and Engineering, Control Science and Engineering

➢ Average score: **89.2**

➢ Awards and Honors:

1) First Prize of Academic Scholarship (September 2021);

2) Promotion and Exemption Scholarship of China University of Petroleum (Beijing) (September 2020);

3) The third prize of the China Graduate Mathematical Modeling Competition in 2021;

➢ Mentor: Jian-wei Liu [home page]

Bachelor degree   **China University of Petroleum (Beijing) (2016.9~2020.6)**

➢ List of "Double First-Class" University Projects、Project **211**

➢ Major: Software Engineering， College of Petroleum

➢ Rankings: **2/58**; Average score: **87.56**

➢ Awards:

1) First Prize of Academic Scholarship (September 2019);

2) First Prize of Academic Scholarship (September 2018);

3) First Prize of Academic Scholarship (September 2017);

➢ Honors:

1) "Advanced individual in scientific and technological innovation";

2) "Merit Student" and "Excellent League Member" Awarded by SCUEC;

➢ Competition:

1) Second prize of Lanqiao Cup Program Design Competition in Provincial Competition;
2) Third prize in the 10th Chinese College Students Computer Design Competition (Internet of Things Group)

Publications

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

(2) **Yangyang Liu**，Jian-wei Liu. The Time-sequence Prediction via Temporal and Contextual Contrastive Representation Learning. 19th Pacific Rim International Conference on Artificial Intelligence (PRICAI 2022).

(3) Jianchun Jiang, Xuhui Zhan, **Yang-yang Liu**, Chong Tang, Jia-nan Wang, Jian-wei Liu. Quality Analysis of high-density polyethylene based on Intelligent. The 4th International Conference on Industrial Artificial Intelligence (IAI 2022).

(4) **Yangyang Liu**，Yi Cao, Shoubin Li. ES-LDGOP: A robust Image Texture Descriptor Based on Local Binary Pattern (In preparation)

Patents

(1) A deep learning-based detection and identification system and method for polyethylene particle defects. 2021. CN112837311A. National invention patent

(2) Heald filament separation detection system and method based on self-learning mode. 2020. CN110865084A. National invention patent

(3) A high-speed video acquisition and processing circuit structure. 2022. CN216249232U. National invention patent

(4) Detection system and method of heald wire separation based on a self-learning model. 2020. CN110865084AU. National invention patent

(5) A method for yarn anomaly detection and control of the automatic mechanizing machine. 2022. CN114120183A. National invention patent

Other Project

(1) 1/6/2021-1/10/2022, Research on the automatic extraction model of crucial information from petrochemical scientific literature, **Algorithm engineer,** Horizontal project of Internet Software Technology Laboratory, Institute of Software, Chinese Academy of Sciences

(2) 1/3/2021-1/6/2021, Knowledge extraction model, **Member,** Horizontal project of Internet Software Technology Laboratory, Institute of Software, Chinese Academy of Sciences

(3) 5/2018-5/2019, Intelligent electronic access control, **Project Leader,** University Student Science and Technology Innovation Project of China University of Petroleum (Beijing)

Internship

2018.09 - 2019.02	**Institute of Software, Chinese Academy of Sciences, internship**
	My work involves face data labeling, 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".