MENG Yang

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EDUCATIONAL BACKGROUND

2018/09-2022/07 **College of Petroleum Engineering, China University of Petroleum (Beijing)**
Bachelor of Engineering in Petroleum Engineering; **GPA 4.24/5.0**

Scholarships: 2020/12 **Wang Tao Meritocracy Scholarship**(less than 6/10000);
2019/12 **National Scholarship** (1/97)
2021/12 **National Scholarship** (1/92)

Core Modules: *Introduction to Petroleum Engineering, College Chemistry, Petrophysics, Drilling Engineering, Reservoir Engineering, Engineering Thermodynamics and Heat Transfer,Reservoir Productivity* etc.

2022/10-2023/10 **Department of Earth Science and Engineering, Imperial college London**
MSc in Applied Computational Science and Engineering
Core Modules: *Numerical methods,Modelling dynamical processes, Advanced programming, parallel programming, Inversion and optimisation, Machine learning*

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2021/06/10 **Pressure Vessel Safety Inspection Management Software** (Reg. No. 2021SR1162768)
2021/06/03 **Neural Network Pattern Recognition System** (Reg. No. 2021SR1162769)
2021/0602 **Oil Extraction Engineering Design Software** (Reg. No. 2021SR1161105)
2021/07/13 **A Camera for Image Recognition** (Patent No. ZL 2020 2 2412564.X)

INTERNSHIP EXPERIENCE

2019/07-2019/09 **CNPC Xibu Drilling Engineering Co. Ltd.**
Shale Oil Project Management Dept. in Jimusar County, Urumqi, Xinjiang
Project Manager Assistant & Drilling Fluids Engineer

- Analyzed the drilling progress on site and the cause analysis and treatment of complex well sections;
- Investigated the pollution prevention and treatment measures and finished a research paper "***Analysis of Environmental Pollution Caused in Oil Development Process and Corresponding Solutions***".

2020/07-2020/09 **Huoshaoshan Oilfield in Jimusar County (Cognition Practice)**
Intern of Technical Office, Well Patrol Team and Oilfield United Station

- Mainly learnt about oil development and post-development maintenance and familiarized with the common problems and technologies in oil-field maintenance such as Paraffin Removing and Proofing Technology and Profile Control Technology

COMPETITIONS & AWARDS

2023 SPE Student Chapter Excellence Award for 2023 | **second highest honor is awarded around the world**
2021 China Petroleum Engineering Design Competition | **Third Prize (National-level)**
2021 American Mathematical Contest In Modeling (MCM) | **Second Prize (National-level)**
2020 Certificate Authority Cup International Mathematical Contest in Modelling | **First Prize (Provincial-level)**
2020 China University of Petroleum 3D Geological Modeling Contest | **Second Prize (College-level)**
2019 The National Mathematical Competition for College Students | **Third Prize (Provincial-level)**
2019 The National English Competition for College Students | **Third Prize (Provincial-level)**

EXTRACURRICULAR & LEADERSHIP

2019/07 - 2020/7 **SPE Student Chapter at China University of Petroleum (Beijing) | Secretary General**
2020/07 - 2021/7 **SPE Student Chapter at China University of Petroleum Karamay Campus | Founder & Chair**
2022/10 - now **SPE Student Chapter at Imperial College London | Communication Officer**

VOLUNTEER EXPERIENCE

International Forum on Heavy Oil Recovery Technology in China | Volunteer

Qufu City Covid-19 Control and Prevention Volunteer, World Hepatitis Day volunteer, Nursing Home volunteer

SKILLS

English	Fluent in English TOEFL104； GRE:332+4
Computer Skills	Good mastery of programming languages including **C++, Python** and **MATLAB** Proficient use of professional software including **comsol, petrel** and **eclipse**

Project

armageddon	Developed an ODE solver for NASA to calculate the trajectory and impact severity of detected meteorites on Earth.
moonshot	ML project using YOLOv5 for image recognition of lunar craters, developing an automated system for labeling and parameter identification of lunar craters.
CTAnalytica	Developed a C++ CT data analysis software for filtering and projection slicing operations on CT images.
OptiRefine	Optimizing mineral refining using MPI, C++, and GA for an efficient and cost-effective circuit design.
HPCFlow	High-performance computing project using Imperial College's HPC system to analyze the performance of the Navier-Stokes equation and solve the convection-diffusion equation in a small container using C++ and MPI.