

Tao Zhang

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Thuwal 23955-6900, Kingdom of Saudi Arabia

Education Background

2016.8~ **King Abdullah University of Science and Technology(KAUST)** **Thuwal, Saudi Arabia**
Ph.D of Earth Science and Engineering

2013.9~2016.6 **China University of Petroleum, Beijing (CUPB)** **Beijing, China**
Master of Engineering degree in Storage and Transmission of Oil and Gas

2009.9~2013.6 **China University of Petroleum, Beijing (CUPB)** **Beijing, China**
Bachelor of Engineering degree in Storage and Transmission of Oil and Gas

2010.9~2013.6 **China University of Petroleum, Beijing (CUPB)** **Beijing, China**
Bachelor of Art degree in English (Double Degree)

Major Courses: Fluid Mechanics, Multi-phase Fluid flow, Oil and Gas Gathering and
Transferring, Inverse Problems, Petroleum Engineering, Transient Flow, etc.

Professional Experience

2011.7~2011.8 **Chengde Ppetroleum Academy College (Metalworking practice)**

- ◆ Learned some knowledge of basic metalworking practice
- ◆ Successfully made some basic metal instruments

2012.7~2012.7 **Huabei Oilfield, China National Petroleum Corporation(CNPC)**

- ◆ Learned skills in manufacturing on the oilfields
- ◆ Successfully finished a process of flowsheet of the field

2012.8~2012.8 **Linyi Pumpstation, China Petrochemical Corporation(Sinopec)**

- ◆ Successfully finished a process of flowsheet of the pump station
- ◆ Successfully designed a layout chart for a fire-pump room

2014.2~2014.2 **King Abdullah University of Science and Technology (Kaust)**

- ◆ Visitor

2014.9~2014.12 **King Abdullah University of Science and Technology (Kaust)**

- ◆ Internship,in program “ Modeling and Simulation of Shale-Gas Reservoirs ”

Papers and Patents

- ◆ M Wang, G Yu, X Zhang, T Zhang.etc. Numerical investigation of melting of waxy crude oil in an oil tank. Applied Thermal Engineering. Volume 115, 2017, Pages 81-90.
- ◆ Tao Zhang.etc. Pore network modeling of drainage process in patterned porous media: A quasi-static study. Journal of Computational Science Volume 9, July 2015, Pages 64 - 69
- ◆ Tao Zhang.etc. A Compact Numerical Implementation for Solving Stokes Equations Using Matrix-vector Operations. Procedia Computer Science Volume 51, 2015, Pages 1208 - 1218.
- ◆ Tao Zhang.etc. Pore-network simulation in the oil-water multi-phase drainage process in porous media: 2015 annual meeting of the Chinese Academy of Engineering Thermal Physics.
- ◆ Tao Zhang.etc. The design of cryptographic system during commercial software development in petroleum industry. Journal of Henan Science and Technology.

2015,07:10-11

- ◆ National invention patent. No 2014103423525. Simulation method of filling process in air traffic control section
- ◆ National invention patent. No 2014103866148. Simulation method of thermal process for crude oil pipeline preheating and heating
- ◆ National invention patent. No 2014103869413. Calculation method for thermal process of crude oil pipeline preheating

Honors and Scholarships

- ◆ **Academic: National Scholarship of Graduate. 2015**
"Ningxia Petroleum Corporation Scholarship" in 2009-2010
National Second Prize in The National English Contest in 2010
Technological innovation focusing on the Safety Insurance of the oil tanks. 2012
The 4th National Doctoral Forum, paper included, 2014
- ◆ **Social:** Volunteering teacher in Beijing Rural Women's Technical School
Excellent volunteer of Beijing International Long Walk Carnival
Volunteer of the "365 Child Welfare Fund"

Certificates and Skills

- ◆ **Foreign Language:** TEM-8 (Test for English Majors, Band 8): Passed
TEM-4 (Test for English Majors, Band 4): Passed
CET-6 (College English Test, Band 6): 598
CET-4 (College English Test, Band 4): 633
- ◆ **Computer:** National Computer Third-Level Certificate on "Network Technique"
National Computer Second-Level Certificate on "C Language"
Language: VB, C++, Fortran, Matlab, R, Python
Softwares: AutoCAD, Fluent, Pipephase,