

## Wen Cao

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### Education Background

#### The University of Tulsa

08/2017---Now

M.S., Petroleum Engineering

#### China University of Petroleum-Beijing

09/2013---06/2017

B.S., Ocean Oil and Gas Engineering

### Research & Projects

#### Study on developing a nonlinear solver for computational problems.

Nov. 2017

- Director: Professor Rami M. Younis;
- Developing a new generation nonlinear solver.

#### Study on Flow Simulation and Factors of CO<sub>2</sub> Storage in Saline Aquifer

Dec. 2016

- Director: Professor Yiqun Zhang;
- Read the literature about CO<sub>2</sub> storage;
- Using Eclipse to simulate the pressure field which is caused by the injection of CO<sub>2</sub>;
- Study the factor of CO<sub>2</sub> storage.

#### Supercritical CO<sub>2</sub> Fracturing and CO<sub>2</sub> Sequestration in Shale Reservoirs

Mar. 2016

- Director: Professor Mao Sheng and Professor Yiqun Zhang;
- Read the relevant references about CO<sub>2</sub> fracturing and CO<sub>2</sub> storage;
- Investigate the mechanism of supercritical CO<sub>2</sub> fracturing and CO<sub>2</sub> storage.

#### A Study of Forecasting Method of Deepwater's Shallow Geological Disaster

Jan. 2015

#### ---The Fourth Reading Seminar of China University of Petroleum-Beijing

- Director: Professor Jin Yang;
- Studied the related forecasting method;
- Participated in the simulated experiment about Deepwater's shallow geological disaster.

### Contests and Honors

#### 2016 China Petroleum Engineering Design Competition

Mar. 2016

- Won the third prize of China Univ. of Petroleum-Beijing Division as the only undergraduate team;
- Led five members' team.

#### 2016 Interdisciplinary Contest in Modeling

Jan. 2016

- Designated as Honorable Award;
- Led three members' team.

#### The Global Management Challenge, China

Jan. 2015

- Won the Third Grade Prize.

#### 2016-2017, 2015-2016, 2014-2015 Academic Year

- Outstanding Individual of Technological Innovation, China University of Petroleum-Beijing.

### Extracurricular Activities

Class monitor	Sept. 2016-June 2017
Joined in the university's sports meeting as a judge	Apr. 2014
Visited the Senior High School I graduated from and propagandized for China University of Petroleum-Beijing	Jan. 2014
Taught mathematics, science as the Volunteer teacher at the Primary school for migrant workers' children	Oct. 2013

### Skills

Computing: Good at Matlab, C, C++, Java.

Simulation: Good at Eclipse.

Language: Fluent in Chinese and English.

Interesting: Good at calligraphy.