

# Wenting Yue

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## OBJECTIVE

To obtain a fulltime position in or related with petroleum engineering (legally authorized to work in U.S., may require sponsorship in future).

## EDUCATION

### Doctor of Philosophy in Petroleum and Natural Gas Engineering

The Pennsylvania State University, University Park, PA | GPA: 3.49

09/2013~08/2016

Research Adviser: Dr. John Yilin Wang.

### Master of Science in Petroleum and Natural Gas Engineering

The Pennsylvania State University, University Park, PA

09/2010~12/2012

Research Adviser: Dr. John Yilin Wang.

### Bachelor of Science in Oil and Gas Storage and Transportation Engineering

Wuhan University of Technology, Wuhan, China | GPA: 3.78

09/2006~06/2010

Related coursework: Design of Oil & Gas Gathering, Storage, and Transportation systems.

## WORKING EXPERIENCE

### Reservoir engineer (intern)

Alfavor Petroleum Co., State College, PA

01/2013~02/2013

- Analyze well logging and geological data;
- Develop reservoir static geological simulation model;
- Analyze and integrate lab PVT data into whole-field reservoir simulation model;
- Well performance evaluation, decline curve/type curve analysis;
- Generate secondary and tertiary recovery plan;
- Economic evaluations.
- Business reception for an international visiting group;

### Sales Representative (intern)

Petro China, Kunlun Lubricant., Taiyuan, Shanxi, China

06/2015~08/2015

- Mobile Lubricant: visit terminal client: auto repair center, lubricant dealers.
- Industrial Lubricant: help maintain partnership with Taiyuan Iron & Steel Group Company LTD. (TISCO);
- Accomplishment: collaborate with a trunk fleet, which owns 20 heavy-duty trunks. The manager also became a sales agent of the product.

## RESEARCH EXPERIENCE

### Development of a Production Data Analysis Model and its Application in a Producing Oil Reservoir

The Pennsylvania State University | Ph.D. research topic

09/2013~06/2016

- Optimization of primary and secondary recovery of a carbonate oil reservoir in Alabama based on a field-scale simulation model;
- Application of Ensemble Kalman Filter (EnKF) method and development of a single-well in-house model to efficiently and accurately predict reservoir permeability, well skin factor, drainage area, and reservoir pressure;
- Improvement of field-scale reservoir simulation and investigation of gas injection performance of the target field under different production scenarios;

- Development of a systematic field simulation strategy for production optimization and practical application of the model the 2<sup>nd</sup> bulletin.

### **Interaction of Fracture Fluid with Formation Rock and Proppant on Fracture Fluid Cleanup and Long Term Gas Recovery in Marcellus Shale Reservoirs**

The Pennsylvania State University | M.Sc. research topic

09/2010~12/2012

- Investigation of proppant scaling (chemical precipitations), diagenesis, and clay swelling mechanisms;
- Construction of reservoir simulation models to represent unconventional reservoirs;
- Evaluations of how production reacts to permeability damage under specific hydraulic fracture geometries.
- Suggestions for better fracture treatment design.

### **An Investigation of Current Geo-probe Tool for Mine Roof Stability**

The Pennsylvania State University & Range Resources Appalachia LLC

04/2012

- A critical review covering petrophysical evaluation, and current Geo-probe products;
- Recommendations for roof stability evaluation tools.

## **TEACHING EXPERIENCE**

### **Teaching Assistant**

The Pennsylvania State University, Department of Energy and Mineral Science 01/2014~06/2014 & 01/2015~06/2015

- Taught PNG 526 (Well Stimulation);
- Graded exams, homework, and projects;
- Led computer lab projects.

## **RELATED SKILLS**

- **Software:** CMG (IMEX GEM Winprop STARS), Frac Pro;
- **Programming:** Matlab, C#;

## **ACTIVITIES & LEADERSHIP**

### **Shell Drilling and Production Camp**

Shell Robert Training & Conference Center

05/2014

- Learning subsea operations, drilling techniques;
- Trainings of health, safety, security and environment.

### **Vice president of Student Union**

Wuhan University of Technology (China)

09/2007-09/2008

## **PUBLICATIONS**

**Yue, Wenting**, and Wang, John, 2015, "Feasibility of Waterflooding for a Carbonate Oil Field through Whole-field Simulation Studies" Journal of Energy Resources Technology, 20pp. Published.

Mathews JP, Song C, Finkelman R. B, **Yue Wenting**, 2012, "Chinese coal-in-title journal articles in Chinese and English" International Pittsburgh Coal Conference, Pittsburgh, 15pp.

**Yue, Wenting**, and Wang, John, 2015, "Effect of Proppant Scaling and Diagenesis on Long-term Gas Recovery in Marcellus Shale Reservoirs" International Journal of Petroleum Engineering, 18pp. submitted for review.

**Yue, Wenting**, and Wang, John, 2016, "Development and Application of an Efficient and Accurate Production Data Analysis Model" Journal of Petroleum Science, 26pp. submitted for review.