Yuchen Zhang

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**EDUCATION**

**The University of Tulsa Tulsa, USA**

*Master of Science in Petroleum Engineering* Expected May. 2016

* **GPA:** 4.0 / 4.0
* **Coursework:** Machine Learning/Optimization /Advanced Reservoir Engineering /Advanced Drilling Engineering /Linear Algebra/ Functional Analysis

**China University of Petroleum, Beijing (CUPB) Beijing, China**

*Bachelor of Science in Petroleum Engineering* Jun. 2014

* **GPA:** 89.4 / 100
* **Honors:** Selected as part of the “Innovation Class”, awarded to the top 90 undergraduate students

**EXPERIENCE**

**Coursera MOOC Machine Learning** (University of Stanford)Nov. 2015

* Supervised Learning: Linear Regression, Logistic Regression, Neural Networks, Support Vector Machine
* Unsupervised Learning: K-means clustering, PCA
* Other: Regularization, Model Selection, Learning Curves, Error Analysis

**Coursera MOOC Excel to MySQL Analytic Tech for Business** (Duke University) On Going

* Data Analysis in Excel
* Data Visualization and Communication with Tableau
* Managing Big Data With MySQL

**SKILLS, ACTIVITIES & INTERESTS**

* **Languages:** Fluent in Chinese and English
* **Technical Skills:** C/C++, MATLAB
* **Activities:** Volunteer for Tulsa Habitat for Humanity
* **Interests:** Driving, Badminton, Basketball, Stock investing

**EXPERIENCE (PETROLEUM RELATED)**

*Research Assistant,* **University of Tulsa** Aug. 2014 – Present

* Build and run the dynamic model of underground reservoir; Explore algorithms to solve reservoir related non-linear PDE numerically
* Selected Project & Research Experience:
  + Enhanced and programmed a dual porosity double permeability model, improved accuracy of predicted near wellbore pressure in low permeability reservoir with massive fissure
  + Analyzed multilateral well production for reservoirs with different boundaries and formation properties (for example areal isotropic and anisotropic formations) by exploiting both semi-analytic and numerical schemes
  + Developed a fully implicit two-phase three-Dimension reservoir simulator with C++

*Intern*, **Beijing HuaFu Engineering Corporation (HFEC)** Jun. 2015 – Jul. 2015

* Review piping and torch design blueprint
* Preparing feasibility report of an Indonesian piping design project

*Secretary*, **Mathematical Modeling Association, CUPB** Sep. 2012 – Jun. 2013

* Organized monthly technical seminars of the Association, responsible for the invitation of the guests
* Recruited over 8 members to club with promotional campaign

**HONORS & AWARDS**

**National Second Prize,** 2012 China Undergraduate Mathematical Contest in Modeling (CUMCM)

**Honorable Mention**,2013 Mathematical Contest in Modeling (MCM)

**Second Prize**, 2011 National Physics Contest:

**First-class scholarship at China University of Petroleum**