房烨欣

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北京市昌平区府学路 18 号中国石油大学石油工程学院，102249
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教育背景

2018.09 至今 中国石油大学（北京） 油气田开发工程 硕士

- 推荐免试硕士，课程绩点 3.54/5，综合测评专业排名 9/120
- 专业课程：高等渗流力学（91/100），油藏数值模拟（95/100），高等油藏工程（96/100），复杂结构井开发理论与技术（94/100），高等气藏工程（87/100），提高采收率原理与方法（90/100）等
- 目前的研究方向是基于机器学习的非常规气井排采优化及产能预测。

2018.01-04 加拿大卡尔加里大学 石油与天然气工程 公派交换生

- 专业课程：工程经济学，提高采收率

2014-2018 中国石油大学（北京） 石油工程 学士

- 专业课程：钻井工程（99/100），油藏工程（95/100），采油工程（94/100），完井工程（92/100），渗流力学（92/100），流体力学（90/100），油层物理（87/100），油田化学工程（100/100），气藏工程(97/100)，采气工程(98/100)，提高采收率基础（93/100），煤层气开发与开采（99/100），石油工程专业英语（96/100）
- 就读于石油工程创新班，课程绩点 4.01/5，综合测评专业排名 3/38
- 心理委员，创建校瑜伽协会

科研与实习经历

2019 至今 浙江油田公司项目：蜀南地区煤层气生产规律及制度优化

- 基于机器学习算法编写程序预测煤层气井产量
- 运行实例并进行结果分析，得到了很好的效果

2018-2019 国家科技重大专项：煤层气高效增产及排采关键技术研究

- 推导煤层气井三段式压力下降模型
- 开展实例研究并分析结果

2017-2018 浙江油田公司项目：沐爱试验区煤层气气藏描述与开发技术政策研究应用

- 煤层气井组数值模拟及井型井网优化设计

2017.10-12 道达尔企业管理（北京）有限公司

- 科学发展部实习生
- 调研撰写燃料电池新技术报告
- 协助筹办了第八届道达尔中国科学论坛

发表或已录用文章

目前已发表国际会议英文文章 3 篇，国内 EI 文章 1 篇。

[1] Productivity Evaluation of Radial Multi-Branch Horizontal Well in Unconventional Gas Reservoirs Considering Permeability Variation: Model Establishment and Sensitivity Analyses. International Petroleum Technology Conference. **（2020 年国际石油技术大会）（导师为第一作者，本人为第二作者）**

[2] 考虑煤粉堵塞影响的煤储层渗透率计算模型及其应用. 天然气工业. 2020 年 06 期.**（EI 检索期刊）（第三作者）**

[3] Machine Learning Based Shale Gas Proration synchronized computing method. **（2020 年非常规资源技术大会）（第三作者）**

[4] Novel Coalbed Methane Reservoir Permeability and Reserve Evaluation Method Based on Flowing Material Balance Equation at Dewatering Stage Considering Permeability Variation. Unconventional Resources Technology Conference. **（2019 年非常规资源技术大会）（第六作者）**

外语水平

- 英语流利，托福: 99/120，GRE: 325/340，四级 602/710，六级 564/710，全国大学生英语竞赛二等奖，全国高校创新英语挑战赛一等奖，参加校内一年期英语演讲与辩论特色班（15 学分），校级英语辩论赛一等奖，中国辩论学院赛二等奖和杰出辩手。
- 日语熟悉，通过 N3: 117/170

模拟器使用与编程技能

[1] 熟练使用油藏数值模拟器 CMG，有油气藏数值模拟的项目经验；

[2] 熟练使用地质建模软件 Petrel，有项目和石工设计大赛应用经验；

[3] 熟练使用编程语言 C、MATLAB 和 Python，计算机二级 C 语言优秀(90/100)

[4] 熟练使用 Excel，Word，PowerPoint 等 Win 和 Mac 系统办公软件；

荣誉

2014-2015	一等奖学金，优秀团员，社会实践先进个人
2015-2016	一等奖学金
2016-2017	一等奖学金，科技创新先进个人
2017-2018	国家留学基金委奖学金
2018-2019	一等学业奖学金，优秀研究生，优秀志愿者

获奖信息

第十届石油工程设计大赛油气藏工程组三等奖

2019 年 Petrobowl 石油工程英语知识竞赛一等奖

第四届国际海洋钻井平台设计大赛一等奖

第二届普通地质大赛二等奖

2017 年大学生创新创业训练计划项目结题评审一等奖

2017 美国大学生数学建模竞赛二等奖

2016 数学中国数学建模国际赛一等奖

Yexin Fang

Female, 24
18 Fuxue Road, Changping District, Beijing, China
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Education

2018- **China University of Petroleum(Beijing) Oil and gas field development** Postgraduate

- Recommended postgraduate, GPA: 3.54/5, ranking 9/120 in comprehensive assessment
- Major courses: Advanced Fluid Mechanics in Porous Media (91/100), Reservoir Numerical Simulation (95/100), Advanced Reservoir Engineering (96/100), The Theory and Technology of Development of Complex Structure Well (94/100), Advanced gas reservoir Engineering (87/100), Fundamentals and Methods of EOR (90/100), etc.
- Research interest: Proration optimization and production prediction use machine learning

2018.1-4 **University of Calgary, Canada** Exchange student

- Major courses: Engineering Economy, Enhance Oil Recovery

2014-2018 **China University of Petroleum(Beijing) Petroleum Engineering** Bachelor

- Professional courses: Drilling Engineering (99/100), Reservoir engineering (95/100), Production engineering (94/100), Well completion engineering (92/100), The mechanics of Fluid Flowing in Porous Media(92/100), Fluid mechanics (90/100), Oilfield chemical engineering (100/100), gas reservoir engineering (97/100), Petroleum English (96/100), C Language Programming Designing (97/100)
- Member of petroleum Engineering Innovation class, with a GPA of 4.01/5, ranking 3/38 in the comprehensive assessment
- Psychological commissar, founded yoga club in university

Experience

2019- **Zhejiang Oilfield Project: CBM production law and regime optimization in South Sichuan Region**

- Predict CBM well production based on machine learning
- Run the example well and analyze result

2018-2019 **National Science and Technology Major project: Research on key technologies of coalbed methane production increase and drainage**

- Derive the three-stage pressure drop model of coalbed methane well
- Conduct case studies and analyze the results

2017-2018 **Zhejiang Oilfield project: Description and application of coalbed methane reservoir development technology policy research in Muai Experimental Area**

- Numerical simulation of 2 coalbed methane well groups
- Overall analysis of well pattern characteristics, well pattern optimization

2017.10-12 **Total Corporate Management(Beijing) Co. Ltd**

- Science Development Department Intern
- Research and write reports on new fuel cell technologies
- Help host 8th Total China Scientific Forum Future Transportation Innovation – Clean, Intelligent and Sharing.

Publications

[1] Productivity Evaluation of Radial Multi-Branch Horizontal Well in Unconventional Gas Reservoirs Considering Permeability Variation: Model Establishment and Sensitivity Analyses. International Petroleum Technology Conference. **(2020 IPTC) (My supervisor is the first author and I am the second author)**

[2] A new permeability model for coalbed methane reservoir considering the blockage of pulverized coals and its parameters analyses. Natural Gas Industry. 2020,40(06):78-8. **(EI) (The third author)**

[3] Machine Learning Based Shale Gas Proration synchronized computing method. **(2020 URTeC) (The third author)**

[4] Novel Coalbed Methane Reservoir Permeability and Reserve Evaluation Method Based on Flowing Material Balance Equation at Dewatering Stage Considering Permeability Variation. Unconventional Resources Technology Conference. **(2019 URTeC) (The sixth author)**

Language

- **English**: Fluent. TOEFL: 99/120; GRE: 325/340; CET 4: 602/710; CET 6: 564/710
  Second prize in 2017 National English Competition for College Students; Completed one-year courses of the English Public Speaking and Debate Class (15 credits) and won first prize in the 4th Intramural English Debate Contest at CUPB.
- **Japanese**: Familiar. Pass JLPT N3: 117/170

Skills

[1] Reservoir numerical simulator CMG: used for crossing research project;

[2] Geological modeling software Petrel: project and competition application;

[3] Programming languages: C, MATLAB and Python; NCRE C language (90/100)

[4] Office software: Excel, Word, PowerPoint and mac system office software;

Honors

2014-2015 First-class scholarship, Advanced individual in social practice

2015-2016 First-class scholarship

2016-2017 First-class scholarship, Advanced individual in Science and Technology Innovation

2017-2018 Scholarship from China Scholarship Council

2018-2019 First-class academic scholarship, Outstanding graduate student, Outstanding volunteer

Awards

2020 China Petroleum Engineering Design Competition (Reservoir engineering): Third prize

2019 Petrobowl Petroleum Engineering English Competition: First prize

2017 American Mathematical Contest in Modeling: Meritorious (Second prize)

2017 College Students Innovation and Entrepreneurship training Program: First prize

2016 International Offshore drilling Platform Design Competition: First prize

2016 China Mathematical Modeling International Competition: First prize

2015 Second General Geology Competition: Second prize