

# Yiming

**Ji**, MSc, P.Eng

## DATA SCIENTIST

Calgary, AB (open to relocation)  
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## SKILLS

SQL, Python, R, Tableau, Spotfire,  
Machine Learning, scikit-learn,  
Statistics, TensorFlow, Hadoop,  
Spark, AWS, Matplotlib, Seaborn

## PROFILE

Nothing excites me more than taking on a challenging problem, solving it with data, and seeing the solution turn into tangible value.

With a solid background in diverse engineering disciplines and a collaborative personality, I have created millions of dollars' worth of value through asset optimization and leading projects up to \$100M.

I strive to bring insight and change to how business can be improved with modern data science tools.

## CERTIFICATION – [view here](#)

### DataCamp

Data Scientist with R Track  
Data Analyst with R Track

**Harvard Business School Online**  
Credential of Readiness (CRe)

## PUBLICATIONS – [view here](#)

2 patents (1 granted, 1 pending)  
3 peer-reviewed journal papers

## EXPERIENCE

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### Project Manager | CNOOC International

OCT 2018 – APR 2020, CALGARY, AB

- Refined k-Nearest-Neighbors regression for analogue selection and well performance prediction, reducing bias introduced by previous models.
- Improved short term free cash flow 15% by revamping field development plan to balance between resource quality and capital intensity.
- Led a team of 15 and turned around a 3-year-old development project by pushing design envelope and boosting project value 50%.

### Petroleum Engineer | CNOOC International

OCT 2010 – OCT 2018, CALGARY, AB

- Increased asset's economic value 15% by devising its first management plan optimized with univariate analysis and regression models.
- Enhanced monitoring efficiency of subsurface integrity and competitor performance by creating various visualization dashboards in Spotfire.
- Engineered virtual meters (2 patents) that addressed inability to measure various flow streams, saving \$1M future development cost.
- Beat production target 10% and enhanced asset value \$10M by optimizing well operations and revamping static geological models.

## EDUCATION

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### BrainStation | Diploma, Data Science

NOV 2020 - FEB 2021, REMOTE

### University of Alberta | Master of Science, Chemical Engineering

SEP 2008 – DEC 2011, EDMONTON, AB

### Beijing Normal University | Bachelors, Environmental Engineering

SEP 2004 – JUL 2008, BEIJING, CHINA

## DATA SCIENCE PROJECTS

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### Lego Investment-Linked Awesome Classifier (LILAC)

NOV 2020 – FEB 2021, BrainStation

Scraped Lego websites and built Classifiers to identify good investment opportunities.

### Neural Network Based Emulsion Composition Sensor (Patent)

May 2015 – DEC 2016, CNOOC International

Estimated produced fluid composition with Neural Networks to reduce operating cost.

### Machine Learning in Predicting Well Performance

JAN 2016 – FEB 2017, CNOOC International

Matched numerical simulation using Neural Networks for predicting oil production.