

## Personal details and contact info

## Bio

Jiahuan Yi received his BEng from Central South University in 2016 and MSc (Distinction) from the Department of Chemical Engineering at UCL in 2017. He then started his PhD under the supervision of Prof. Haroun Mahgerefteh in the same department in October 2018.

## Research interests

### Project title

Efficient outflow modelling for industrial pressurised pipelines.

## Summary

Jiahuan's main research interests are in the field of mathematical modelling of transient multi-phase flows in pipelines and quantitative risk assessment using CFD approaches for industrial hydrocarbons and under the framework of Carbon Capture and Storage (CCS).

Excessive CO<sub>2</sub> emissions have been significantly accelerating the climate change. This poses huge health and environmental threats including adverse weather conditions and shrinking water supplies, risking the world's sustained development. To combat such an issue which is globally severe, the Paris Climate Agreement requires its participating parties including China and the UK to keep the global temperature rise within this century well below 2°C above pre-

## Research group

Prof Haroun Mahgerefteh's research group