

Yang Yang

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Profile

A conscientious and enthusiastic PhD of Chemical Engineering graduated from University of Birmingham. Through my previous studies and work experience, I have developed abundant knowledge in particle technology, ability to propose new ideas for process optimisation and analytical skills for vast amounts of data. I am an independent worker who is extremely adaptable and have learned valuable skills for solving challenging problems.

PhD Researcher

Mar 2014- Mar 2018. As a sponsored PhD researcher, I was responsible for a research work under project-pilot stirred mill for energy efficiency research which is a joint programme by Innovate UK, Imerys Mineral Ltd. and GT.Jones & Co. Main responsibilities include:

Working closely with industrial and academic partners to undertake research on a set of interesting applied problems;
Assisting intensive laboratory work in Imerys Research Centre
Manage relationships between cooperated partners and write quarterly end progress report to the project supervisor by a specific deadline.
Analysing of complex data and presentation of emerging conclusions and concepts.
Propose innovative ideas based on the industrial interest.
Writing academic conference and journal papers

The research aims were to understand and simulate particle flow inside a high shear mill via positron emission particle tracking(PEPT) and discrete element method (DEM).

Teaching Associate

Sep 2015-Oct 2017. I worked as a teaching assistant for modules Modelling Concepts and Tools; Transport Phenomena and Thermal dynamics at school of chemical engineering at University of Birmingham. Responsibilities include:

Supervising and lecturing the undergraduate students
Preparing tutorial questions and marking laboratory reports.
In-class tutorial to demonstrate the typical chemical engineering problems ensure the scheduled academic assignments are completed.
Assisting and working alongside the module coordinator to support learning activities e.g. marking laboratory report.

Academic Skills:

Proficient in laboratory facilities: Malvern Mastersizer 2000, TA instruments Rheology, Scanning Electron Microscopy-Philips XL30 LaB6.

Skills in IT technology: Linux(Ubuntu), C# , Matlab, AutoCAD, LIGGGHTS, ANSYS Fluent/CFX, OpenFoam,.

Basic Radiation Awareness Training Certificate by Public Health England, UK

Others: Full UK driving license.

Publications and conferences

1. Yang, Y., Rowson, N.A., Tamblyn, R., Ingram, A., 2017. Effect of operating parameters on fine particle grinding in a vertically stirred media mill. Separation Science and Technology 52, 1143-1152. doi:10.1080/01496395.2016.1276931
2. 2016 American Institute of Chemical Engineers (AIChE) Annual Meeting, San Francisco, USA. "Analysis about Effects of Operating Parameters on Fine Particle Grinding Process with Vertically Stirred Media Mills".
3. The 69th Annual Meeting of the American Physical Society(APS) –Division of Fluid Dynamics, Portland, USA. "Optimising Operating Conditions on Fine Particle Grinding Process with Vertically Stirred Media Mill".
4. UK Particle Technology Forum, March 2017-ICHEME Particle Technology Specially Interest Group(PTSIG). "Analysis of fine particle grinding process in vertically stirred media mills".
5. 'Basic Radiation and Laser Safety Awareness' training course by Public Health England, UK.

Membership:

Institution of Chemical Engineering (IChemE)-Associate Member

American Institute of Chemical Engineers (AIChE)-Graduate Student Member

Competencies

Analytical Thinking and Problem Solving: the research experience developed my ability to think analytically and critically. I undertook a series of engineering project which fully developed my ability in data collection, process optimisation and results analysis

Teamwork: excellent awareness in team scenarios, listening to the views of others and inputting my own ideas. Being able to develop strong working relationships to achieve common goals and objectives.

Planning and Organising: my planning and organising skills have been developed through helping to organising seminars and academic activities. Successfully completing the PhD project enable me to arrange detailed schedule for a long-term project and complete on time.

Education:

Mar 2014-Mar 2018, PhD in School of Chemical Engineering, University of Birmingham

Thesis is about study of fine particle grinding process on vertically stirred media mills via positron emission particle tracking technology(PEPT) and discrete element method(DEM)

Supervised by Prof. Neil Rowson, Dr Andrew Ingram and Dr Richard Tamblyn

Aug 2012-Sep 2013, MSc in School of Chemical Engineering, Loughborough University.

The dissertation is about modelling of oil-water mixing in stirred tanks.

Supervised by Prof. Chris Reilly

Aug 2011-Sep 2012, Joint Program, BEng final year in Loughborough University

Sep 2008- Jul 2011, BEng in Beijing University of Chemical Technology.

Courses include: Safety Loss Prevention & Environmental Control, Process Economics & Design, Chemical Engineering Design, Food Engineering, Mass Transfer and Separations etc.

Reference

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