

## OBJECTIVE

Admission to Mechanical Engineering/Power Engineering graduate programs

## EDUCATION

2010.09–2014.06 **B.E. in Mechanical Engineering** Beijing, China  
Peking University (PKU)

- GPA: 100/100
- Rank: 1/23
- IELTS 6.5 (R 7, L 7, S 7, W 7), GRE 325 (Verbal 160, Quantitative 165, AW 6.0)
- Featured courses: Mechanical Design 92, Computer Control System Power Engineering 94, Computer Aided Technique 89, Technology of CAD 91, Analogue Electronics 90, Industrial Practice 90, Experiment on Foundation of Project Control 95

## PUBLICATION

- Yu, X., Biodegradable polymer microcapsules fabrication through a template-free approach. *Langmuir* 2011, 27, 10265 -10273. (IF=4.186)
- Yu, X. (co-first), Generation of polymer nanocapsules via a membrane-extrusion emulsification approach. *Materials Letters* 2012, 77, 96-99. (IF=2.307)

## WORK EXPERIENCE

2013.03–present **Research Assistant, State Key Laboratory of Coal Combustion**  
—Gas-solid Reaction Kinetics Analyzer Based on Micro-dual Bed Fuel-staging Thermal Transition China NSF Funding: 2011YQ120039 Advisor Prof. YAO, Hong

- Verified the flow field distribution stimulated by CFD
- Tested the pressure distribution and particle trajectory in the flow field
- Wrote the online data collection and processing program for the CO<sub>2</sub> detector, the detector together with the program was patented as new invention, **PATENT NO. 201310438571.9**

## INTERNSHIP

2013.07–2013.08 **Marketing Assistant** Pepsi China, Beijing  
Marketing data analysis  
2013.06–2013.07 **Operational Department Assistant** Xiangyang Power Plant  
Steam turbine maintenance

## SKILLS

**VC/VB/Matlab/Access/SQL Server/Fluent/Gambit/L<sup>A</sup>T<sub>E</sub>X**