

# Dream CODER

## PERSONAL DATA

DATE OF BIRTH	1st Sept. 2010
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## OBJECTIVE

Admission to Mechanical Engineering/Power Engineering graduate programs

## EDUCATION

2010.09–2014.06	<b>B.E. in Mechanical Engineering</b> <i>Peking University (PKU)</i> 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	Beijing, China
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## 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	<b>Research Assistant, State Key Laboratory of Coal Combustion</b> — <i>Gas-solid Reaction Kinetics Analyzer Based on Micro-dual Bed Fuel-staging Thermal Transition</i> <i>China NSF Funding: 2011YQ120039</i> 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, <b>PATENT NO. 201310438571.9</b>	Advisor Prof. YAO, Hong
2013.05	<b>Modeling the Pulverized Coal Combustion in a Single Burner Furnace</b> — <i>Supervised by Prof. FANG, Qingyan</i> Stimulated velocity field, temperature field, oxygen concentration field of the furnace with CFD Optimized the combustion condition considering different impact factors	

## INTERNSHIP

2013.07–2013.08	<b>Marketing Assistant</b> Marketing data analysis	Pepsi China, Beijing
2013.06–2013.07	<b>Operational Department Assistant</b> <i>Steam turbine maintenance</i>	Xiangyang Power Plant

## SKILLS

VC/VB/Matlab/Access/SQL Server/Fluent/Gambit/TeX