# Dream Coder

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# Objective

Admission to Mechanical Engineering/Power Engineering graduate programs



### Education

B.E. in Mechanical Engineering, Peking University (PKU), Beijing, China.

- o GPA: 100/100
- o Rank: 1/23
- o 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



- 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



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 CO2 detector, the detector together with the program was patented as new invention, PATENT NO. 201310438571.9



### Modeling the Pulverized Coal Combustion in a Single Burner Furnace.

- -Supervised by Prof. FANG, Qingyan
- o Stimulated velocity field, temperature field, oxygen concentration field of the furnace with CFD
- Optimized the combustion condition considering different impact factors



## Internship



Marketing Assistant, Pepsi China, Beijing.

Marketing data analysis



**Operational Department Assistant**, *Xiangyang Power Plant*.

Steam turbine maintenance



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

ATEX