

**Benting Chen****Mobile:** +86-15216769620**E-mail:** [chenbenting@126.com](mailto:chenbenting@126.com)**Address:** University of Shanghai for Science and Technology,  
No.516, Jungong Road, Shanghai, 200093, P.R. China**EDUCATION**

<b>Major in Thermal Engineering</b>	<b>Master of Engineering</b>	Sep. 2013-June, 2016
<ul style="list-style-type: none"> <li>School of Energy and Environment, University of Shanghai for Science and Technology (USST)</li> <li>GPA: Overall 3.78/4 (88.80/100)</li> </ul>	Major 3.82/4 (89.21/100)	
<b>Major in Energy and Power Engineering</b>	<b>Bachelor of Engineering</b>	Sep. 2009-June, 2013
<ul style="list-style-type: none"> <li>School of Energy and Environment, University of Shanghai for Science and Technology (USST)</li> <li>GPA: Overall 3.38/4 (85.41/100)</li> </ul>	Major 3.53/4 (86.07/100)	Ranking: top 5%

**RESEARCH EXPERIENCE**

- Depth from Defocus algorithm and method Investigation**  
Core Staff Oct. 2018 - Current
  - Development of a Size Distribution Measurement System for Cement-particle**  
Core Staff Nov. 2015 - Mar. 2016  
 Established a size distribution measurement system for cement-particle based on shadowgraph techniques, including the sample system designing, camera controlling and image processing software development.
  - Investigation of the Atomizing Characteristics for Spiral Nozzles using Imaging Method**  
Core Staff Sep. 2015 - Nov. 2015
  - Image Segmentation Algorithm Investigation for Polarizing Microscope Image of Rock Core**  
Core Staff Oct. 2014 - Apr. 2015  
 Proposed a Rock-core image segmentation method to conduct the granularity analysis based on K-means clustering and super pixel segmentation algorithms.
  - Image Processing Software Development for Polarizing Microscope Image of Rock Core**  
Core Staff Apr. 2014 - Oct. 2014  
 Developed one software system for *SINOPEC Petroleum Exploration and Production Research Institute* based on VB.NET, including industrial camera controlling, image processing and principal database processing functions.
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- Development of Nano-particle Size Measurement System Based on Image Dynamic Light Scattering (IDLS) Algorithm**  
Research Assistant Jul. 2015 – Nov. 2015  
 Developed the program for the IDLS system, including algorithms programming, industrial camera controlling and data processing.
  - Measurement of HONO In the Atmosphere by LOPAP (Long Path Absorption Photometer)**  
Research Assistant Feb. 2015  
 Developed a data-processing program for the LOPAP system, including industrial camera controlling, image processing and principal database processing functions.
  - Investigation on Liquid Film of Urea–Water Solutions with Diode Laser Absorption Spectroscopy**  
Research Assistant Dec. 2014  
 Measured the film thickness of urea–water solutions by shadowgraph technique to investigate the performance of the DLAS method.

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**PUBLICATIONS**


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- Wu Zhou, Cameron Tropea, **Benting Chen**, Yukun Zhang, Xu Luo, Xiaoshu Cai. Spray Drop Measurements using Depth from Defocus. (In preparation)
- Wu Zhou, Xu Luo, **Benting Chen**, Yukun Zhang, Xiaoshu Cai. Estimation of particle depth from two defocused images using the Fourier transform. *Particology* (2019) (Cited by SCI) DOI: 10.1016/j.partic.2019.04.002
- Yang Huinan, Xiaolong Guo, Wu Zhou, **Benting Chen**, Jiarui Hu, Mingxu Su, Xiaoshu Cai. Investigation on liquid film of urea–water solutions with diode laser absorption spectroscopy. *Experiments in Fluids* 56, no. 4 (2015): 73. (cited by SCI) DOI 10.1007/s00348-015-1941-7
- **Benting Chen**, Wu Zhou, Xiaoshu Cai, Xiqing Xu. New method for the segmentation of polarizing microscope image of rock core based on k-means cluster algorithm. *Journal of University of Shanghai for science and technology*. 2016, 38(4):341-345.
- **Benting Chen**, Wu Zhou, Jiarui Hu, Xiaoshu Cai. Size investigation of spray droplets using imaging analysis method. *9th International Symposium on Measurement Techniques for Multiphase Flow, Sapporo, Japan, 23rd-25th September 2015*
- **Benting Chen**, Wu Zhou, Xiaoshu Cai. Core Image Granularity Analysis of Rock Core Image Based on Digital Image Processing. *The 2014 International Symposium on Advanced Mechanical and Power Engineering, 14-23 November 2014, Fukui, Korea*

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**WORKING EXPERIENCE**


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- **University of Shanghai for Science and Technology (USST)**  
Research Assistant Apr. 2018 - Current  
 Guide experiment platform design, programming and paper writing for graduate students.
- **Shanghai Sanden Automotive Air Conditioning Co., Ltd.**  
QA Engineer May. 2017 - Apr. 2018  
 Analyze after-sales' compressor quality problems, supervise production department and suppliers to rectify.
- **Shanghai Tuojiang Environmental Protection Technology Co., Ltd.**  
Project Engineer Aug. 2016 - Apr. 2017  
 Designed one experimental system and processed the data to investigate the instruments' performance used for NO, NO<sub>2</sub> and SO<sub>2</sub> measurement at power plants;  
 Participated in hardware and software development of CEMS (Continuous Emission Monitoring System).

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**TECHNICAL SKILLS**


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Matlab, C++ & C# programming language, ProE & Solidworks

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**AWARDS & SCHOLARSHIPS**


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Best Oral Presentation Award of the International Symposium on Advanced Mechanical and Power Engineering 2014	Nov. 2014
School Level Outstanding Graduate at USST	June. 2013
Advanced Individual in Summer Social Practice at USST	Oct. 2011
Outstanding Student Cadre at USST	Nov. 2011
Outstanding Volunteer at USST	Nov. 2011
Outstanding Student at USST	Nov. 2010

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**VOLUNTEER**


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Volunteer for China-UK International Particle Technology Forum IV, Shanghai, China	Oct. 15-19, 2013
Volunteer for the 14 <sup>th</sup> FINA World Championships 2011, Shanghai, China.	Jul. 2011
Volunteer for Shanghai World Exposition 2010	Oct. 2010