

## CURRICULUM VITAE

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### ❖ Education

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Sept. 2016-Current: Ph.D. Candidate (Geophysics Engineering)  
Sept. 2010-Jun. 2014: B.S. (Mining Engineering)  
Sept. 2010-Jun. 2014: Minor Subject Certificate (Mechanical Engineering)

### ❖ Research Experiences

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2013-Current: **Member, National Basic Research Program of China** (973 Project)-Mechanism and Prediction of Environmental Damage Deformation in the mining under high strength mining intensity (2013CB227904). Research funding: **RMB 6.48 Million** (2013-2017)

- ✓ Worked on the collection and quantification of mining geology and mining condition such as mining height, working face length, surface subsidence, surface deformation and so on.
- ✓ Explored the relationship between environmental damage and high strength mining exploration.

2014-Current: **Member, Chinese Academy Engineering Significant Consulting Research Project**-Efficiency Recovery and Energy Conservation Strategy Research of coal resource in China (2015-NY-2). Research Funding: **RMB 3.7 million** (2014-2016)

- ✓ Built up the mathematical model to evaluate Chinese coal resources in the view of safety, environment, technology and economy.
- ✓ Carried out the research on coal resources recovery condition in China.

2014-Current: **Member, Chinese Academy Engineering Significant Consulting Research Project**-Coordinated Development of Mineral Resources Strategy Research in Ordos Basin (2015-NY-3). Research Funding: **RMB 3.0 million** (2014-2016)

- ✓ Evaluate the economic and social value for uranium, coal, oil and gas in Ordos Basin.
- ✓ Studied the extraction sequence for uranium, coal, oil and gas in Ordos Basin.
- ✓ Emphasis on the interaction influence between coal and uranium extraction and put forward the excellent method to minimize it.

2014-Current: **Member, Natural Science Foundation of China (National Significant Research Instrument Development)**-Simulation Test Instrument Used to Reveal the Coal and Gas Outburst Mechanism and the Precursor Information of Approaching Outburst (51427804). Research Funding: **RMB 9.8 million** (2015-2019)

- ✓ Obtained the simulation material of which adsorption and porosity are similar with the coal.
- ✓ Try to replace CH<sub>4</sub> with CO<sub>2</sub> and N<sub>2</sub> for the testing safety.

2015-Current: **Director**, Research on the Effect of the Sand Proportion and Water Content of Unsaturated Infill Material on Shear Strength for Infilling Rock Joints (Self-designed Experiment)

- ✓ Explored the relationship between sand content and unsaturation of sand-soil material.
- ✓ Explored the relationship between unsaturation and sand content of sand-soil material and shear strength of rock joints filled with it

2012-2014: **Director**, National Undergraduate Innovation Research-the Application of Fiber Grating Sensor for Roof Separation Monitor (201210290008) Research Funding: **RMB 20 thousand**

- ✓ Applied the Fiber Bragg Grating sensor into the monitor of bolt stress distribution.
- ✓ Applied the bolt with FBG sensor into the field successfully.

2014-Current: **Member, China Uni. Scientific Strategy Significant Research Theory and Technology of Overall Detection and Exploration for all irregular gas in the coal measure strata (Under Application)**

## ❖ Publications

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### Papers

- **Lv Chuangxin**, Kan Jiaguang, Ma Yajun, Zhang Wende. Application of fiber grating dynamometry bolt in coal mine tunnel surrounding rock monitoring [J]. Highlights of Sciencepaper Online, 2015, 8(16): 1750-1760.
- Li Guichen, Jiang Zuohan, **Lv Chuangxin**, et al. Instability mechanism and control technology of soft rock roadway affected by mining and high confined water[J]. International Journal of Mining Science and Technology, 2015, 25(4): 573-580.
- Xiaowei Feng, Nong Zhang, **Chuangxin Lv**. Effects of interface damage resulting from the separation of layered strata on bolt anchoring systems [J] Shock and Vibration, 2016

### Patents

Multi-purpose deck chair	Invention Patents	Under Application
Hand-wash basin	Invention Patents	Under Application
Wing-style hand grenade	Invention Patents	Under Application
New-style headlamp for roadway	Utility model patent	Accepted
Constant-resistance yielding gob-side filling airbag	Utility model patent	Accepted

## ❖ Honors & Awards

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### Honors

- Jun. 2014 On behalf of all graduates' parents, my father gave a speech in the CUMT graduation ceremony
- Jun. 2014 Outstanding Graduate of CUMT
- Dec. 2013 Excellent Student Leader of CUMT
- Jun. 2013 Outstanding Student Standard of CUMT (**the highest honor for CUMT students** and only 10 students in CUMT are qualified to receive this award every year. I also gave a speech on the behalf of all students who received this award)
- May 2013 Outstanding Student of Jiangsu Province (**the highest honor for Jiangsu students** and only 10 students out of 10 million are qualified to receive this award every year)
- Dec. 2012 Campus Annual Students (Nomination) (the one of most popular student election in CUMT)
- Dec. 2012 Excellent Student in Social Practice Activities of CUMT
- Sept. 2012 SUN Yue-qi Prize for Model Student of Academic Record (**the highest honor for students engaged in energy industrialization in China** and only 20 students in CUMT are qualified to receive this award every year)
- Jul. 2012 Devotion Advanced Individual in mining school (I devoted RMB 2000 in three years totally)

**Awards**

- Feb. 2014 The First Prize in 3st National Mining Engineering Students Practical Competition (**the highest contest for mining engineering students in China with 5% winners in all the teams**)
- May 2013 First Prize in Mathematical Modeling Competition of SuBei Area (the north part of Jiangsu Province) in Jiangsu province
- Apr. 2013 **Honorable Winner of Interdisciplinary Contest in Modeling (ICM) (held by National Science Foundation of United States with 15% winners in all the teams)**
- Aug. 2012 **First Prize at Walking Robot Contest in National Robot Competition (held by National Robot Foundation of China with 10% winners in all the teams)**
- Aug. 2012 Second Prize at Tourism Robot Contest in National Robot Competition (held by National Robot Foundation of China with 20% winners in all the teams)
- Aug. 2012 Second Prize at Medical Robot Contest in National Robot Competition (held by National Robot Foundation of China with 20% winners in all the teams)
- Oct. 2011 Third Prize in National Electrical Mathematical Modeling Competition

**❖ Scholarships**

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- 2014-2015 Outstanding Scholarship for Doctoral Postgraduate
- 2013-2014 Outstanding Graduate Scholarship
- 2012-2013 SUN Yue-qi Scholarship
- 2010-2011 National Scholarship for Undergraduate (Only three students were awarded in the school of mining engineering)
- 2009-2010 National Scholarship for Undergraduate
- 2008-2009 National Scholarship for Undergraduate

**❖ Campus Involvement**

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- 2012-2013 Vice-chairman of Reading Club in CUMT
- 2012-2013 Minister in Supervisor Department in school of mining engineering
- 2011-2012 Minister in Secretary Department in school of mining engineering
- 2010-2011 Artistic Committee Member in the class

❖ **Others**

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Passed National Computer Rank Examination grade 2 (VB), grade 3 (Database Technology) and grade 4(Database Engineer)

Skilled in FLAC 3D, SPSS, Eviews, MATLAB, AutoCAD, Visio, etc.

Basic Skill in Programming with SQL and Visual Basic

Interested in jogging, basketball, reading, etc.