

## Yangyang Wu

[Tel: \(970\)-889-5127](tel:970-889-5127)

[Email: tienong0817@gmail.com](mailto:tienong0817@gmail.com)

### Education

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|-------------------|-----------------------------|-------------------------------|
| • 08/2015-Present | PhD in Colorado State Univ. | Major: Structural Engineering |
| • 09/2012-06/2015 | M.S in Tongji University    | Major: Bridge Engineering     |
| • 09/2008-07/2012 | B.S in Jilin University     | Major: Civil Engineering      |

### Publications

- Xiangmin Yu, **Yangyang Wu**, Dewei Chen. “*Optimization of Fore-fulcrum Form Traveler using Fmincon Function and Genetic Algorithm*”, Sciencepaper Online, 2014. (In Chinese)
- **Yangyang Wu**, Dewei Chen, Fanxin Jia. “*A Method to Optimize Composite Fore-Fulcrum Form Travelers in Single Plane Cable-Stayed Bridges*”, 3rd International Conference on Civil, Architectural and Hydraulic Engineering, Jul 31<sup>th</sup>, 2014, Hangzhou. (In English)
- Fanxin Jia, Dewei Chen, **Yangyang Wu**. “*Fine-analysis for the Concrete upper Rotation Table and Pier of a Bridge using Rotation Construction Method*”, 3rd International Conference on Civil, Architectural and Hydraulic Engineering, Jul 31<sup>th</sup>, 2014, Hangzhou. (In English)
- Wanting Wang, **Yangyang Wu**, Long Li, Haijun Mao, Congyang Ai, Kun Yuan, Yueli Li, Yongchun Cheng. “*Icebreaking wheels*”. Utility Model Patent. 201120185310.7.

### Researches

1. Optimization of composite fore-fulcrum form travelers in single plane cable-stayed bridges. **01/2015-06/2015**
2. Dynamic performance of prestressed concrete box girder bridges with corrugated steel webs. **11/2014-12/2014**
3. The seismic performance of extended pile shafts & seismic analysis of the Tong Mai Bridge. **10/2014-11/2014**
4. Analytical solution to the optimization of fore-fulcrum form traveler in cable-stayed bridges. **03/2014-06/2014**
5. Fine analysis of the upper rotation table of a continuous beam bridge using rotation method. **11/2013-12/2014**
6. Analytical solution to the lateral deflection of webs of U-shaped steel beams under dead load. **09/2013-11/2013**
7. Research on a Digital Close-range Photogrammetric Bridge Deflection Measurement System. **12/2012-01/2013**
8. Feasibility of applying compounded rubber particles in asphalt pavement of snow areas. **12/2011-03/2012**
9. Brand New technique of icebreaking on non-motorized vehicle lane in the seasonal frozen cities. **01/2011-05/2011**
10. China Undergraduate Mathematical Contest in Modeling. **05/2010, 09/2010, 05/2011**

### Projects

- 10/2014-11/2014 Assessment project of 18 bridges in Cangzhou
- 09/2014-12/2014 Construction monitoring of Yachihe River Bridge in Guiyang
- 07/2014-08/2014 Stability analysis of the foundation of Damen Bridge in Wenzhou
- 04/2014-05/2014 Construction monitoring of Chenta Bridge in Shanghai
- 05/2014-06/2014 DOT project “*Conclusion and Anticipation of World's Bridge Career*”

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- **02/2014-03/2014** Construction of Qinhuai New River Bridge in Nanjing
  - **11/2013-12/2013** Design representative of The North-Fu Interchange Project in Fuzhou
  - **09/2013-11/2013** Construction monitoring of Shitang Bridge in Ningbo
  - **07/2010-08/2010** Bridge detection project of Jilin University in Changchun
  - **01/2009-02/2009** Hebi Beam Plant of China Zhongtie Major Bridge Engineering Group

**Work Experience**

- ✓ **08/2015-Present** Graduate Research Assistant, Colorado State University
- ✓ **09/2012-06/2015** Graduate Research Assistant, Tongji University
- ✓ **09/2012-01/2015** Graduate Management Assistant, Tongji University

**Academic experience**

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- **06/2013-07/2013** 4<sup>th</sup> National Graduate Summer School Organized by Southeast University
  - **04/2014-Present** Member of Shanghai Highway and Transportation Society

**Honors**

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- \* National Scholarship (2009, 2011)
  - \* National Encouragement Scholarship (2010)
  - \* First Prize of Mathematical Modeling Contest in Jilin Province (2010, 2011)
  - \* Graduate scholarship (2012, 2013, 2014)
  - \* First Scholarship of Jilin University (2012)
  - \* Academic Science Scholarship of Jilin University (2010, 2011)
  - \* Social Work Scholarship of Jilin University (2012)
  - \* Excellent Student of Jilin University (2010, 2011, 2012)
  - \* Award of Merit in the 6<sup>th</sup> National Competition of Transport Science & Technology (2010)
  - \* Award of Merit in National Mathematical Modeling Contest (2010)
  - \* Dong Rong Scholarship (2011)
  - \* Excellent Student journalist of Jilin University (2009, 2010)

**Professional skills**

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- C language, Matlab, SAP2000, Midas Civil, Doctor Bridge, Auto CAD, CATIA, 1stOpt
  - Structural Analysis, Structural Optimization, Construction Monitoring, Bridge Non-destructive Assessment, Bridge Detection