XIANGYONG DUANMU

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SUMMARY

- Strong background in structure analysis through multiple projects and experimental experience
- Solid hands-on experience in FEA softwares, such as ABAQUS, ANSYS
- Highly self-motivated, Rapid Learning

EDUCATION

Tongji University   Shanghai

MA   Architecture and Civil Engineering   Sep. 2017.9~Now

Average Score：89.7/100

First Prize of Bridge Design Competition for University Students

Main Courses: Elasticity Mechanics and Finite Element Method, Dynamics, Advanced Bridge Design

Southeast University   Nanjing

BS   Road and Bridge and River Crossing Engineering   Sep. 2013~June. 2017

Average Score：91.0/100   Ranking：4/100

National Scholarship, Merit Student, 5281 Scholarship, Second Prize in Jiangsu Mechanics Competition

Main Courses: Theoretical Mechanics, Material Mechanics, Structural Mechanics, Concrete Structure Design, Pavement Engineering

PROJECTS AND RESEARCH EXPERIENCE

Static performance of segmental prefabricated light T-beams   Sep. 2018~Now

Optimizing the structures with FEA, designing and carrying out relevant experiments (21 concrete beams), analyzing and summarizing the results

Fatigue behavior of connection steel plate over simple supported girders   Sep.2018~Aug.2019

Calculating and optimizing continuous slab structure over simple supported beams(concrete type and steel type), designing the experiment

Experimental study of concrete composite beams   Nov. 2017~Nov. 2019

Analyzing and evaluating the bearing capacity with FEA, participating in experiments

Experimental study of concrete shear plate   June. 2018~Sep. 2018

Participating in experiments

Checking calculation of 60 m steel-concrete composite viaduct   Oct. 2017~Nov. 2017

Calculating and analyzing the bridge with the spatial grid model

Program for transverse distribution coefficient   Aug. 2017~Sep. 2017

Writing related program in C++

Laser scanning point cloud   Mar. 2017~Apr. 2017

Collecting field data

Damage identification of concrete cable-stayed bridge based on cable force optimization   Sep. 2016~June. 2017

Modeling with FEA and analyzing the relationship between cable forces and the field data

TECHNICAL SKILLS

ABAQUS, ANSYS, C++, Matlab, Python, html&css

TEACHING AND INTERNSHIP

TA of "Theoretical Mechanics & Material Mechanics"   Mar. 2019~Now

TA of "Information Technology in Civil Engineering"   Sep.2017~Jan..2018

Highway scientific research institute of Nanjing traffic administration   June. 2015~Aug.2015

    Statistical analysis of traffic accidents and optimization of road design

PUBLICATION

D Xu, **X Duanmu**, Y Zhou, Research on Extending Span of Box Girder Bridge with Corrugated Steel Webs up to 300m,20th CONGRESS OF IABSE,2019

W. Xiong, S. Lu, J. Xi, G. Wei, and **X. Duanmu**, "Main girder damage detection and verification of cable-stayed bridges based on cable force model updating," Dongnan Daxue Xuebao (Ziran Kexue Ban)/Journal of Southeast University (Natural Science Edition), vol. 49, no. 3, pp. 467-473, 2019.   (in Chinese）