

ZIHAN SONG

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EDUCATION

University of Wisconsin- Madison

Madison, WI, Sept. 2015 - Now

Wuhan University

Wuhan, China, Sept. 2011 - Jun. 2015

PUBLICATIONS

Tian Jing, **Song Zihan**, Ai Tinghua. Grid Pattern Extraction in Road Networks with Graph. *Geomatics and Information Science of Wuhan University*. Vol.37 No.6, June 2012

Jing Tian, **Zihan Song**, Fei Gao, Feng Zhao. Grid Pattern Recognition in Road Networks Using the C4.5 Algorithm. *Cartography and Geographic Information Science*. DOI: [10.1080/15230406.2015.1062425](https://doi.org/10.1080/15230406.2015.1062425)

RESEARCH AND PROJECT EXPERIENCES

Figure Group Design of *National Economic Atlas, New Century Version*

Wuhan, China, Jun. - Jul. 2014

- In charge of drawing the eighth figure group of the book on China's insurance industry
- Collected data on premium income, compensation and benefits, insurance institutions number and the number of employees, as well as the depth and density of insurance in all provinces
- Analysed the data with SPSS and drew three maps with CorelDraw / ArcGIS using two 1:20,000,000 geographical base maps and one 1:14,000,000 geographical base map; designed the maps onto one page

Grid Pattern Recognition in Road Networks Using the C4.5 Algorithm

Supported by National Natural Science Foundation of China

Wuhan, China, Jul. 2013 - Aug. 2014

- Proposed a method for grid pattern recognition based on the idea of mesh classification through a supervised learning process using the C4.5 algorithm
- Defined new measurements for characterizing meshes, taking into account a mesh's individual characteristics and its spatial context

Visual Storytelling Coding

Madison, WI, Oct. 2015. – Feb. 2016

- Visual stories entry and coding. Visual stories are collected from New York Times, Wall Street Journal, Washington Post and National Geography. Then stories are coded based on design strategies, medium and technology.

INTERNSHIP EXPERIENCE

Esri Summer Internship

Geoevent Extension for Server, Professional Service

Redlands, CA, June. - Aug. 2016

- Built Esri User Conference Plenary Demo for Geoevent team for showing real-time transit system of Auckland
- Started and managed real-time cartography project. Displayed and compared real-time transit of Los Angeles, New York City and Washington D.C.

Analysis of Tangshan City Infrastructure Facilities Damages after the Earthquake in 1976

Ministry of Technology, National Earthquake Response Support Service

Beijing, China, Jul. - Aug. 2012

- Digitalized paper geographical base maps and vectorized Tangshan city pipeline maps; analyzed pipeline damages caused by the big earthquake in 1976
- Summarized and analyzed data on Tangshan water supply, natural gas and heating pipelines including starting and ending locations, lengths, pipe diameters and installation time with ArcGIS software

HONORS & AWARDS

- Excellent Student Leader, Wuhan University (top 10%) 2012
- Excellent Student, Wuhan University (top 10%) 2012
- First Class Scholarship, Wuhan University (top 5%) 2013
- National Scholarship, MOE of China (top 2%) 2013
- Triple-A Student, Wuhan University (top 3%) 2013
- First place of UW- Madison, Cartography Lab 2016 Design Challenge 2016
- First place of 2016 Esri Intern Hackathon 2016

ACTIVITIES

Charity Run

Wuhan, China, Nov. 2013

- This event aimed at raising funds for children with autistic and was organized by Wuhan city sports association and Vanke public welfare foundation
- Qualified in 3 km race of "Every Step for Love - 2013 Wuhan Charity Run"

Wuhan University Youth Volunteer Association

Wuhan, China, Sept. 2011 - Sept. 2012

- Served at Public Relations Department of the association and ensured sufficient funds for activities
- Participated in the organization of grand events, e.g., sports meetings for local primary schools

INTERNATIONAL EXCHANGE EXPERIENCE

Singapore, Feb. - Mar. 2014

- Visited Nanyang Technological University and National University of Singapore as one of the students in 11th Sino-Singapore Undergraduate Exchange Programme