Ruiqi ZHANG

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BIOGRAPHY

I am a master student in the Department of Natural Environmental Studies, the University of Tokyo studying under professor Oguchi Takashi' s supervision. My research interest currently lies mainly in geomorphology and hydrology.

EDUCATION

The University of Tokyo - Tokyo, Japan April 2018 - Present

- M.S. in Environmental Science, to be conferred April 2020
- Coursework: Advanced Hydrology, Geosphere Change, Terrestrial Ecology, Environmental Information Science, Landscape Planning and Design.
- GPA: 4.00/4.00

The University of Jilin - Changchun, China September 2013 - June 2017

- B.S. in Geophysics
- Coursework: Petroleum Geology, Structure Geology, Seismology and Seismic prospecting, Radioactivity Exploration; Calculus, Linear Algebra, Probability and Statistics, Numerical Computing and Modeling, Complex Analysis and Integral Transformation; Fundamentals of Programming in C language, Principles and Application of Matlab, Data Structures.
- GPA: 3.67/4.00; Ranking: 3/27 (Top 12%)

ACADEMIC EXPERIENCE

The University of Tokyo

Sediment transport Supervisor: Dr. Takashi OGUCHI

- Evaluate the scale effect of water discharge and suspended sediment concentration in the Yellow River Basin, China.
- Explain hydrological results with reference to topographic, climatic, and land use data.

The University of Jilin

Optimal transport for seismic waves Supervisor: Dr. Pengfei ZHAO

- Construct a stratigraphic model.
- Define the location of intersections taking the minimal travel time when seismic waves go through strata based on genetic algorithms in MATLAB..

Evaluation of soil organic content Supervisor: Dr. Zhiguo MENG

- Establish a forward model explaining the relationship between the brightness temperature and the content of soil organism.
- Conduct on-site experiments to investigate how organic content affects radiation characteristics of microwave in soil.
- Establish an inversion model evaluating soil organic content based on field data and AMSR-E images.

CONFERENCE

- Rui-qi Zhang and Takashi Oguchi. "Responses of suspended sediment yield to precipitation, topography and dam control in the Yellow River Basin, China." JPGU:5. 30 (2019). [poster]

HONOR

- The first prize of China Mathematical Contest in Modeling (Changchun city, China) in 2015 and 2016
- First-class scholarship (for academic excellence - GPA rank: 3/27), 2015
- Second-class scholarship (for academic excellence - GPA rank: 4/27), 2014

SKILLS

- Computer: Proficient with ArcGIS, R, Matlab
- Language: Chinese, English