

Ruiqi Zhang

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

Education

The University of Tokyo, Japan 4/18-now

■ M.as, Environmental Science, to be conferred Apr. 2020

■ Coursework: Advanced Hydrology, Geosphere Change, Terrestrial Ecology, Environmental Information Science, Landscape Planning and Design.

■ GPA: 4.00/4.00

The University of Jilin, China 9/13–7/17

■ 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 Experiences

■ The University of Tokyo Japan

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 China

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), 2016
- The first prize of China Mathematical Contest in Modeling (Changchun city, China), 2015
- 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 (native), English (fluent)