

# Tian ZHAO

5B542 NJU Xianlin Campus, 163 Xianlin Avenue, Nanjing 210023, China

Cell: (+86) 158 5053 7512, Skype ID: *live:jdzhaotian*

E-mail: [tianzhao@smail.nju.edu.cn](mailto:tianzhao@smail.nju.edu.cn) & [jdzhaotian@msn.com](mailto:jdzhaotian@msn.com)

Personal Website: <https://tonytianzhao.github.io/>

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## EDUCATION

**Nanjing University, China**

September 2013 – Present

(Expected) B.S. in Geographical Sciences

June 2017

- Cumulative GPA: 88.6/100 Major GPA: 89.4/100
- Relevant advanced coursework: Geomorphology, Hydraulics, Physical Oceanography, Marine Biology, Marine Chemistry, Cartography and Surveying, Geographic Modeling, Experiments in Physical Geography, GIS Technology and Application
- Graduate courses attended: Marine Sediment Dynamics, Coastal Ocean Hydrodynamics

## RESEARCH EXPERIENCE

**Research Assistant**

November 2014 – Present

- School of Geographic and Oceanographic Sciences, Nanjing University
- Advisers: Professor Shu GAO, Professor Ya Ping WANG, Associate Professor Qian YU
- Projects: (for details, see <https://tonytianzhao.github.io/research.html#projects>)
  - Reconstruction of the return period - intensity relationship for coastal extreme events based on sedimentary record analysis: A case study in Jiangsu coast**
    - Undergraduate team leader
    - Analyzed a sediment core; 510 samples for grain size, 256 samples for chemical elements
    - Graph plotting and analysis: grain size, magnetic parameters
    - Result presenting (in progress): an academic paper and B.S. thesis
  - Numerical modeling of sediment carrying capacity (depth-averaged saturated suspended sediment concentration) in shallow coastal seas**
    - Main participant, in collaboration with Dr. Qian YU
    - Prepared a course report in *Marine Sediment Dynamics* on the classification of previous current-induced sediment carrying capacity formulae
    - Built models in C language for cohesive and non-cohesive sediments accordingly
    - Statistical analyses and verification for model-derived formulae in Origin and SPSS
    - Result presenting: an academic paper in progress

## FIELDWORK PARTICIPATION

- **In situ sediment transport observation in South Yellow Sea**, August 2016, participating undergraduate student.
  - Collected 165 bottles of water sample for SSC-profile study, set up the observation platform with the team, and participated in LISST, ADV, ADCP, OBS, RBR measurements.
- **Geological excursion in the Western Alps**, July 2016, team leader.
  - A 10-day English-based geological excursion in collaboration with Université d'Orléans.

- 40 stops of observation regarding sedimentology, stratigraphy, lithology and tectonics.
- Prepared presentation materials and slides for the team, on the topic of Foehn.
- Interview: <http://www.nju.edu.cn/EN/80/a7/c4662a164007/page.htm>
- **Coral-reef dynamics study**, January 2016, participating undergraduate student.
  - Positioned 26 stops of study, studied the lagoon environment, sand spits, coastal dunes, ripples, wave-cut platforms, mangroves, a volcanic coast, coral-reef dynamics and DJI-drone operation, around Hainan Island, China.
- **Practice of geographical sciences in Lushan Mountain**, September 2015, team leader and GPS-based navigator.
  - Personal work: Positioned 29 stops, collected meteorological data of 2 representative stops, surveyed 4 strata, 5 folds, 3 faults, 2 slides, 3 reservoirs and the Poyang Lake. Studied 4 typical kinds of cultural landscapes, spatially analyzed and mapped the northern part of Lushan Mountain in a set of 6 feature-based maps in ArcGIS. Finished a report on this practice.
  - Team work: Studied 110 typical plant species and ecological succession, 6 kinds of typical soil. Measured pH, temperature, electrical conductivity, ammonia nitrogen, dissolved oxygen and flow velocity of Changchong River. Built a model of Lushan Church in SketchUp.
- **Bio-geomorphological study of *Spartina alterniflora* saltmarshes**, July-August 2015, participating undergraduate student and GPS-based navigator.
  - Positioned 5 profiles and 25 stops for study, photographed, counted and sampled 125 quadrats of soil and plant in *Spartina alterniflora* saltmarshes near Rudong, China.
- **Saltmarsh cliff stability study**, May 2015, participating undergraduate student.
  - Set up a RTK base station, measured 1 of 5 mudflat profiles, sampled 20 of 110 bags of surface sediment in a *Spartina alterniflora* saltmarsh near Yancheng, China.
- **Practice of General Geology**, July 2014, group leader.
  - Surveyed 18 strata, 2 folds, 2 faults, a dead volcano, a spring, and various types of rock in Jiangsu Province, China.

## AWARDS, HONORS & SERVICE

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|--|--------------------------|
| ● Excellent Student of Nanjing University (Top 5%)               | 2015                     |
| ● Liao's Scholarship, Nanjing University (20 Awardees)           | 2015                     |
| ● People's Scholarship, First Grade, Nanjing University (Top 5%) | 2014                     |
| ● Class Monitor of Geography 2013                                | September 2014 – Present |

## SKILLS

- Laboratory: grain-size analysis, elemental analysis
- Observation instrument: Garmin GPS, RTK, total station, LISST, ADV, ADCP, OBS, RBR
- Software: C, ArcGIS, ERDAS IMAGINE, ENVI, SketchUp, SPSS, Origin

## STANDARDIZED EXAMS

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|---|--------------|
| ● TOEFL: 109/120 (Reading 28, Listening 28, Speaking 26, Writing 27)          | Oct 29, 2016 |
| ● GRE: Verbal 152 (55%), Quantitative 170 (97%), Analytical Writing 3.5 (42%) | May 8, 2016  |