Xianran Zhang

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✧ EDUCATION

- ✓ **Nanjing University | Nanjing, China** **09/2015 - Present**
  Undergraduate Student, Geographic Information Science, GPA:4.24/5.0, Ranking in Major:8/25

✧ RESEARCH INTERESTS

- ✓ The Spatio-temporal Pattern of Global Urban Heat Island, Remote Sensing Image Analysis
- ✓ Digital Image Processing, Computer Vision, Data Mining

✧ JOB INTENTION

- ✓ Engineer of Remote Sensing Image Analysis, GIS Product Planner/Operator/Salesman
- ✓ Engineer of Computer Vision, AI Algorithm Researcher

✧ ACADEMIC EXPERIENCES

- ✓ **Research on Qinhuai River Basin Health** **03/2017 - 12/2018**
  Project: Innovation Training Program for College Students in Jiangsu Province
  Introduction: Water quality data, land use data and socio-economic data were used to calculate the Water Surface Rate, Water Quality Comprehensive Index and Green Space Coverage Rate, Shannon's Diversity Index, Growth Rate of Agricultural and Forestry Output Value and Water Consumption per Ten Thousand yuan of GDP, respectively, so as to make a comprehensive evaluation of river health in Qinhuai River Basin，supervised by Professor Youpeng Xu of School of Geographic and Oceanographic Science in Nanjing University
  Personal Work: Responsible for dividing the study area and calculating the Green Space Coverage Rate and Shannon's Diversity Index from the land use data. Firstly, the study area was divided into 10 small watersheds through administrative division boundaries in ArcGIS. Secondly, land use data were overlayed with the divided 10 small watersheds in ArcGIS to calculate the Green Space Coverage Rate. Finally, fragstats was used to calculate the Shannon's Diversity Index of each watershed
- ✓ **Research on the Spatio-temporal Pattern of Global Urban Heat Island** **09/2018 - 02/2019**
  Project: Produce Practice of Undergraduate Students
  Intriduction: With Google Earth Engine (GEE) for computing platform, auxiliary platform based on ArcGIS/Python, using MODIS temperature/vegetation index/land cover product data, coding to achieve the filter of the world's 11848 cities/the calculation of urban heat island intensity/ the linear regression between vegetation index and surface temperature, and on the basis of calculation results, I analyzed the Spatio-temporal Pattern between the urban heat island intensity and surface temperature/vegetation index of 18 years data in the worldwide, and then I wrote a report, supervised by Professor Wenfeng Zhan of School of Geographic and Oceanographic Science in Nanjing University
  Personal Work: The project was completed by myself

✧ AWARDS AND HONORS

- ✓ 12/2018 | **The 7th National College Students GIS Application Skills Competition Second Prize** | China Geographical Association
- ✓ 10/2018 | **Outstanding Student** | Nanjing University
- ✓ 09/2018 | **Second Prize of People's Scholarship(3/25，RMB 2000)** | Nanjing University

- ✓ 09/2018 | **Excellence Award in the 10th College Students Knowledge Contest of Jiangsu Province (science and engineering group)** | Institute of Jiangsu Province Higher Education
- ✓ 09/2018 | **Peer Mentor of 2018 Students** | Nanjing University
- ✓ 06/2018 | **Outstanding Communist Youth League Cadre** | Nanjing University
- ✓ 10/2017 | **Zhoudafu Scholarship(3/25，RMB 5000) & Zhoudafu Campus Elite** | Nanjing University
- ✓ 06/2017 | **Excellent League Member** | Nanjing University
- ✓ 12/2016 | **Tangzhongying Scholarship (12/38，RMB 4000)** | Nanjing University
- ✓ 11/2016 | **Social Practice Excellent Team in 2016** | Nanjing University
- ✓ 10/2016 | **Third Prize of People's Scholarship(12/38，RMB 800)** | Nanjing University

✧ PRACTICE EXPERIENCES

- ✓ 08/2017 - 06/2018 | **Assistant of Undergraduate Administration Office** | School of Geographic and Oceanographic Science, Nanjing University
- ✓ 09/2015 - 06/2016 | **GIS Class Monitor** | School of Geographic and Oceanographic Science, Nanjing University

✧ KNOWLEDGE AND SKILLS

- ✓ **Language:** Chinese(native), English(fluent): CET-4(491)/CET-6(509)
- ✓ **Software:** ArcGIS/ENVI/GEE/eCognition/MATLAB/GitHub/Visual Studio/Microsoft Office/Photoshop/Premiere/Audition
- ✓ **Programming:** C/C++/C#/Python/HTML

REFERENCES ON REQUEST

Updated: March 1, 2019 Xianran Zhang