

Yihang She

School of Geographic and Oceanographic Sciences, Nanjing University

163 Xianlin Avenue, Qixia District, Nanjing, China 210000

Email: yihangshe@mail.nju.edu.cn Homepage: <https://yihangshe.github.io/>

EDUCATION

- University of California, Berkeley | California, US** 01/2018 – 05/2018
Visiting Student, Berkeley International Study Program (BISP), GPA: 3.945/4.0
- Nanjing University | Nanjing, China** 09/2015 – Present
Undergraduate Student, Geographic Information Science, GPA: 4.634/5.0, Ranking in Major: 1/25

RESEARCH INTERESTS

Quantitative Research in Urbanization and Global Change, Urban Planning by Using GIS and RS
Industrial Ecology, Urban Metabolism
Land-use and Land-cover Change, Food and Agriculture

ACADEMIC EXPERIENCES

- Mitacs Globalink Research Intern | University of Winnipeg, Winnipeg, Canada** 06/2018 – 09/2018
- Project: Forest-Community Innovation Network, supervised by Professor Ryan Bullock, Canada Research Chair in Human-Environment Interactions, Environment and Society Research Group
 - Review of Community Forestry research in Canada. Identifying gaps and directions for future research.
 - Personal work: Reading peer-reviewed articles of Community Forestry in Canada over the past decade. Composing an annotated bibliography. Identifying themes and trends on NVivo. Mapping distributions of community forestry on ArcGIS. Composing parts of manuscripts for a peer-reviewed article (in progress).
- Research Intern | NASA's Ames Research Center, Mountainview, US** 11/2017 – 08/2018
- Project: A scalable crop intensity algorithm for cropland intensity mapping at 30-m using multi-source time-series data and Google Earth Engine, supervised by Dr. Jun Xiong, Research Fellow in Ames Center
 - Mapping cropping intensity in India by using MODIS and Landsat 8 imageries on Google Earth Engine
 - Personal work: Coding with Javascript on Earth Engine to improve mapping accuracy. Marking Areas of Interest (AOI) with large errors by comparing reference imagery. Adjusting thresholds used in detecting cropping intensity by studying morphology of NDVI time series and collecting cropping calendars.
- Final Project in Postgraduate Course | University of California, Berkeley, US** 1/2018 – 05/2018
- LD ARCH 221- Quantitative Methods in Environmental Planning, supervised by Professor John D. Radke
 - Project: Assessing suitability of public open Space for children in the City of Oakland by applying spatial analysis
 - Personal work: Reviewing existing literatures and identifying related factors. Developing mathematical models. Data collection. Modeling based on Model Builder in ArcGIS, with basic idea from McHarg's Transparent Overlay Model, combining with multiple GIS techniques. Writing final paper.
 - Result presentation: Three progress reports, a conference presentation and a journal manuscript in progress.
- Research Assistant | Nanjing University, Nanjing, China** 06/2017 – present
- Research Group of Urban and Thermal Remote Sensing, supervised by Professor Wenfeng Zhan
 - Currently working on B.Sc. thesis: Synoptic controls of surface heat island intensities over cities/settlements across the globe.
- Co-researcher | Volunteer Service on Land-use and Planning in Rural Areas, China** 07/2017 – 08/2017
- Research Group of Land Use and Land Cover Change, supervised by Professor Qiuhao Huang

- Personal work: Panel discussions with local residents and officials in Changzhou. Mapping land-use status and updating geo-database based on ArcGIS, satellite imagery and interviews. Composing final report.

Resident Undergraduate Student | Nanjing University, Nanjing, China 10/2016 – 11/2017

- Supervised by Professor Bowei Zhang, Institute for Advanced Studies in Humanities and Social Sciences
- Attending bi-weekly postgraduate seminars on Chinese ancient literature. Panel discussions of ancient literature in Korea and Japan. Visiting Pennsylvania State University. Writing report on poems of Qu Yuan.

TRAININGS AND WORKSHOPS

Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans | Winnipeg, Canada 06/2018

- Trainings and tests on research protocols and ethics involving humans in Canada.

Summer Camp at Department of Earth System Science | Tsinghua University, Beijing, China 06/2018

- Seminars on earth system science. Personal presentation. One on one interviews with faculty members.

Field Survey on Cultural Representation in Nanjing | The University of Tokyo, Nanjing, China 03/2017

- Survey on urban experience in Nanjing with theme of family. Result presentation. Writing report.

Global Engaged Humanities Program | Pennsylvania State University, Pennsylvania, US 10/2017

- Workshops in the Department of East Asian Studies. Auditing courses. Visiting New York City.

International Summer Camp | Korea University, Seoul, South Korea 07/2016 – 08/2016

- Short-term courses on Geography, Law and Korean language. Cultural activities in Seoul.

PRESENTATIONS

Oral Presentation | 2018 International Geographical Union Regional Conference, Quebec City, Canada 08/2018

- The Urban Geography Study Group, Presentation Title: Suitability Assessment of Current Public Open Space for Children in the City of Oakland.

AWARDS AND HONORS

2018 | **First Grade Award of Papers** (top 25 in 370 papers) | The 21st NJU Forum of Sciences and Arts

2018 | **Globalink Research Internship Award** (200 Selectees in China) | Mitacs

2018 | **CSC Scholarship** | China Scholarship Council

2018 | **Du-xia Scholarship** (RMB 8,000) | Nanjing University

2018 | **Rui-hua International Exchange Scholarship** (RMB 40,000) | Nanjing University

2017 | **Zheng-gang Scholarship** (RMB 10,000) | Nanjing University

2017 | **Merit Student of Jiangsu Province** | Department of Education, Jiangsu Provincial Government

2017 | **Outstanding Student** | Nanjing University

2017 | **First Grade Award of Excellent Practice Achievement** (top 3 in 165 teams, individual ranking 2/6) | Volunteer Service on Landuse and Planning in Chinese Rural Areas | China Land Science Society

2017 | **Provincial Third Grade Award** (individual ranking 4/9) | The 15th Challenge Cup National College Students' Extracurricular Science and Technology Competition

2016 | **National Scholarship** (RMB 8,000, the **highest honor** for college students) | China Ministry of Education

2016 | **Association of Pacific Rim Universities (APRU) Scholarship** (USD 200) | Korea University

2016 | **Second Grade Award** | The 9th National Collegiate Oceanographic Knowledge Competition

KNOWLEDGE AND SKILLS

Software: ArcGIS; Google Earth Engine; ENVI; MATLAB; NVivo; GitHub; and Co-laboratory

Programming: C; C++; Python: GeoPandas, NumPy; SQL; C#; and HTML

Academic Writing: APA, MLA, and Experience on writing annotated bibliography and journal articles

Language: Chinese (native), English (fluent), TOEFL: 104/120 (Reading: 28, Listening: 26, Speaking: 23, Writing: 27)

Research Ethics: Certificate of Completion on TCPS 2: CORE.

REFERENCES ON REQUEST