Chenwei Xiao

Gender: Male
Date of Birth: 02/06/1998
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EDUCATION

Bachelor of Science (2015.9-2019.7) ***Nanjing University,*** Nanjing, China

- Major: Geography
- Anticipated Graduation: June 2019
- Cumulative Grade Point Average (GPA): 4.64/5 (92.8/100);
- Integrated Ranking: 1/66

Visiting researcher, student intern (2018.5-2018.8) ***Concordia University,*** Montreal, Canada

- Department: Department of Geography, Planning and Environment
- Project: Remote sensing of Vegetation Phenology in High Latitudes
- Professor's comment: Excellent and motivated;

HONORS & AWARDS

- *China National Scholarship, Ministry of Education of the People's Republic of China, 2016*
- *Huawei Scholarship, Huawei Technology Co., Ltd., 2017*
- *Chinese Government Scholarship, Chinese Scholarship Council, 2018*
- *Mitacs Globalink Research Internship Scholarship, Mitacs, 2018*
- *National College Student Research Innovation Training Grant, Nanjing University, 2018*
- *First Prize in the 4th Geographical Science Presentation Competition of China, GSC, 2018*
- *Second Grade Award in the 21th Forum of Sciences & Arts, Nanjing University, 2018*

CONFERENCE PRESENTATION

AGU/CAS JING Meeting on PM2.5 ***2018.10.16-2018.10.20***
Poster presentation:
Recent wind decline in China, its possible cause and environmental effects
(https://agu.confex.com/agu/ajm2018/meetingapp.cgi/Paper/338057)

RESEARCH EXPERIENCE

Global Environment Change Research Group ***(2017.7-present)***

Main Professors	Zhiwei Xu (Associate professor, Nanjing University) Shuangye Wu (Associate professor, University of Dayton)
Projects and My Role	**Recent wind decline in Northern China: its facts, possible causes and environmental effects.** **Student Research Assistants:** ➢ Statistical analysis of wind speed data from multiple sources (CMA, IGRA, NCEP/NCAR, NCEP/DOE) using R and Fortran Programming; ➢ Graph using ArcGIS and Origin etc. software ➢ Discuss the possible causes and environmental effects of wind speed change

Mitacs Globalink Research Internship Program ***(2018.5-2018.8)***

Main Professor	Angela Kross (Assistant Professor, Concordia University)
Projects and My Role	**Remote Sensing of Vegetation Phenology in High Latitudes** **Student Intern leader, visiting researcher:** ➢ Use several datasets including satellite images as well as PHENOCAM data; ➢ Google Earth Engine application; ➢ Document the accuracy of different data for estimating vegetation peak;

National College Student Research Innovation Training Program ***(2018.4-present)***

Instructors	Shuangwen Yi (Senior Engineer, Nanjing University) Zhiwei Xu (Associate professor, Nanjing University)
Projects and My role	**Paleoenvironmental reconstruction of past dust storm activity in northern China over the past 5,000 years** **Project leader:** ➢ Field work in the Mu Us desert, high-resolution sampling of sand dune profiles; ➢ Laboratory work, including OSL chronology measures, sediment grain size, etc.; ➢ Quantitative analysis of wind speed, sediment grain size and deposition rate and determine possible relationship using R;

ENGLISH PROFICIENCY

TOFEL: 107/120 (Reading 30, Listening 28, Speaking 22, Writing 27)
GRE: 327/340 (Verbal 157, Quantitative 170, Analytical Writing 4.0)

PROFESSIONAL SKILLS & WORKSHOP

Programming/Data Processing

- R, FORTRAN and C Programming;
- Statistical analysis of remote sensing data and climate data (observation and reanalysis dataset);
- GIS/RS application (with experiences of ArcGIS and Google Earth Engine application);

Workshop

- Certificate of completing *Regional Climate Models for Advanced Applications in Areas such as Ecology, Hydrology and Wind Resources Training.*
- Certificate of completing the *IEEE GRSS Summer School on Modeling and the seventh Remote Sensing Data Retrieval Theory and Method Summer School*;

Field Work & Experiment

- Geomorphology and Quaternary Geology survey, sampling;
- Basic laboratory experiments including sediment analysis and geochemical analysis

RESEARCH INTERESTS

- Climate Change Studies: Land-surface Models; Land-climate interaction.
  Climate change, as a central problem for the whole world, always attracts me since I was inspired by movies describing climate disasters at a young age. I have taken a lot of courses in mathematics, physics and chemistry. I am doing some projects about assessing climate change and its influence on vegetation, arid area and wind resources, using statistical analysis programming. I am desired to carry out further study on these fields and especially interested in modern climate models such as CLM, WRF.