

Mr. Yongxiao LIANG

D.O.B: January 29,1994

E-mail: yongxiao@uvic.ca

Education Background

09/2019-

University of Victoria

- **PhD candidate**
- **Advisor: Nathan Gillett and Adam Monahan**

09/2016-06/2019

**Nanjing University of Information Science and
Technology(Nanjing, China)**

- **Degree:** Master of Science
- **Advisor:** Zhihong Jiang, Laurent Z.X. Li (co-advisor, from CNRS)
- **Major:** Climate System and Climate Change

Research Experience

09/2019-now Observationally-constrained climate projections

06/2017-06/2019

**Response of East Asian Climate System at 1.5 Degrees of
Global Warming and Its Scenario Estimation**

Main tasks I undertake:

- ◇ Analysis the response of extreme event to equilibrium and transient scenarios under future warming threshold in East Asia.
- ◇ Analysis the response of East Asia summer monsoon to equilibrium and transient scenarios under future warming threshold.
- ◇ Modeling the effects of urbanization in East Asia on regional extreme climate events and East Asian summer monsoon circulation under the equilibrium scenario(based on CAM5.1 and WRF model)

09/2016-09/2017 Modeling the climate response of land cover change in East Asia over the past 30 years (based on CAM5.1 and WRF model)

Main tasks I undertake:

- ◇ I used regional model WRF and global climate model CAM5.1 to study the climate response of land cover change in East Asia, which was analyzed from near-surface meteorological elements and large-scale circulation fields.

Honors and Awards: (selected)

- ◇ First Prize in Jiangsu Province of the National Mathematical Modeling Competition(advisor: Yang Yang)
- ◇ Honorable mention of American College Students Mathematical Modeling(advisor: Xiang Zuo)
- ◇ National Inspirational Scholarship, Binjiang college special scholarship

Publications(selected)

1. **Liang,Y.**, N. Gillett., A. Monahan.,2020. Climate model projections of 21st century global warming constrained using the observed warming trend.(submitted to GRL, Revised)
2. **Liang, Y.**; Xiao, P. Climatic Effects of China Large-Scale Urbanization on East Asian Summer Monsoon under Different Phases of Pacific Decadal Oscillation. *Atmosphere* 2019, 10, 90.
3. **Liang,Y.**,Ma,H.,Jiang,Z.,2017.Modeling effects of changes in cropland/natural vegetation mosaics over the Yangtze River Delta. *Scientia Meteorologica Sinca*.(In Chinese with English abstract)