

## **Xiao Chang**

Ecology, Evolution, and Environmental Biology

Columbia University

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### **EDUCATION**

#### **Columbia University, 2015- Present**

Visiting Scholar, Ecology, Evolution and Environmental Biology

Supervisors: Ruth DeFries

#### **China Agricultural University, 2012-Present**

Ph.D., Land Resource Management

Thesis: Agricultural land use transformation in eastern China: agent based simulations and the mechanism study

Supervisor: Liming Liu

#### **Henan Agricultural University, 2008-2012**

B.S., Land Resource Management

Magna Cum Laude

### **PUBLICATIONS**

X. Chang, L. Liu, and Z. Liu. Method of multi-agent system for simulating land use decision-making. behavior or farmer households, Transactions of the Chinese Society of Agricultural Engineering, 29(14): 227-237, 2013.

G.Yin, L.Liu, X.Chang, J.Sun. A comprehensive assessment of agricultural intensification scenarios for the Dongting Lake basin in south-central China in 2030. Environmental Science and Pollution Research 23(14), 14018-33, 2016

#### Submitted

X.Chang, L. Liu, An agent based model for simulating the differentiation of farmer households from. the perspective of farmland transfer in eastern China

### **FELLOWSHIPS AND AWARDS**

*Excellent Academic Scholarship, 2014*

*Excellent Research Scholarship, 2013*

*Huangyicong scholarship (awarded to 1/270), 2011*  
*National Scholarship (awarded to 1/270), 2010*  
*National Endeavor Fellowship (awarded to 2/270)*

## **RESEARCH EXPERIENCE**

- 2012- Present: Doctoral researcher/ "Analysis and Modeling of Land Use System for Environmental Risk Assessment in Highly Intensive Areas(National Science Foundation Project)", focused on farmland transfer, household differentiation and land use transformation using agent-based model, China Agricultural University, China.
- 2012- 2013: Doctoral researcher/ "Sustainable Development Pattern of Rural Landscape in Urban Fringe Areas under urban-rural integration", focused on the analysis and Simulation of farmer household behavior", China Agricultural University, China.
- 2012-2015: Research associate/ Chinese City Walkability Evaluation Project and the Europe-China Eco-Cities Link (EC-LINK) Project, The Natural Resources Defense Council (NRDC), China.
- 2014-2015: Research associate/ Modern characteristic agricultural demonstration zone planning of Longzhou County, Lanzhou County Government, China.
- 2011: Research associate/ Construction of Nanyang planning management system and fundamental Geographic Information System, Geographic Information Center, China.
- 2011: Research associate/ Detailed planning of east river zone, design of six entrances of Nanyang city, urban system planning of the Tanghe County, Nanyang Institute of Urban Planning and Design, China.

## **PRESENTATIONS**

- X. Chang, 2015. Farmland transfer and the transformation of agricultural land use system in eastern China. Annual symposium of the project "Analysis and Modeling of Land Use System for Environmental Risk Assessment in Highly Intensive Areas", Beijing

## **SKILLS**

### Computer

Programming (R, Netlogo), ArcGIS, Microsoft Suite.

### Languages

Mandarin, native speaker.

English, proficiency.

### Music

Piano: GRADE Ten (achieved professional level)

Accordion.