

## *Guo Xiaohui*

---

**Address:** 2123 E Kirkland Ln., Tempe, AZ, 85281

**Tel:** 4237377353

**E-mail:** biogxh@gmail.com

### **Education and Working Experience**

9/2001 – 7/2005, China Agricultural University

Bachelor of Science, Major in Biology Science, College of Biology Science

1/2006 - 1/2007, Institute of Zoology, Chinese Academy of Sciences

Research assistant in key laboratory of animal ecology and conservation biology supervised by Prof. Z.G. Jiang

10/2007 – 7/2011, Working at Peking University Library

8/2011 – 6/2014, East Tennessee State University

Candidate Master of Science, Major in Biology Science, Department of Biological Sciences, supervised by Dr. Istvan Karsai

8/2014 – present Arizona State University Tempe, AZ

PhD student in Animal Behavior

### **Academic Experience**

2004, I joined in the botany research group to study the physiology of plant vascular cell in College of Biology, China Agricultural University.

2005, I built the behavior code system of feral cats and analyzed their level of the socialization in Bachelor's thesis.

2006, I conducted the sample survey of feral cats independently in the urban area of Beijing.

2006, I tested the Resource Dispersion Hypothesis (RDH), which explained how animals evolve to group living.

2012, I participated the "Anylogic" program workshop in Beijing for agent-based model.

2012, I participated Appalachian Student Research Forum with the poster "*A simple energy dynamic model of ant colony*".

2013, I participated Appalachian Student Research Forum with the poster "*Ant Colony Energy Dynamic: An Agent Based Model of Energy Flow*".

2013, I was recruited as a research assistant, the database manager, for the research on cardiovascular health management supervised Pro. Hadii Mamudu, in Public Health Department, East Tennessee State University

### **Teaching Experience**

2011-2013, Graduate Teaching Assistant, East Tennessee State University

Courses Taught: Biology Major Lab I, Biology Major Lab II

### **Awarded**

2002, Academic Scholarship in Department of Biological Science, China Agriculture University

2003, Excellent Undergraduate Award in Department of Biological Science, China

Agriculture University

2003, Academic Scholarship in Department of Biological Science, China Agriculture University

2004, Academic Thesis Award in Department of Biological Science, China Agriculture University

2005, Excellent Undergraduate Award in China Agricultural University

2013, Thesis Scholarship in Graduate School, East Tennessee State University

### **Selected papers**

Jiang Zhigang, Guo Xiaohui, Sampling survey of feral cats in urban Beijing, *Chinese Journal Wildlife*, 2007, vol. 28, no. 1.

Guo Xiaohui, Istvan Karsai, Effects of temperature on Ant colony energy dynamics: An agent-based model of the energy flow, 2013 (*Master thesis*).

### **Media Coverage**

2012, ETSU Newspaper reported my ant colony energy project.

<http://www.easttennessean.com/news/are-ants-vulnerable-to-climate-change-1.2860631#.UjPpZka-lsk>

2012, Video of an agent based model for interaction between ant foraging behavior and population growth by Starlogo

[https://www.youtube.com/watch?v=2B0y8QkAC\\_c](https://www.youtube.com/watch?v=2B0y8QkAC_c)

2012, Video of an agent based model for ant colony dynamics by Anylogic

<https://www.youtube.com/watch?v=0wWibxDjVKA>

2013, Video of an agent based model for ant colony energy and population dynamics by Netgolo

<https://www.youtube.com/watch?v=kwfth95ESo>