

## EDUCATION

<b>Ph.D.</b>	Statistics Advisor: Dr. Luo Xiao	North Carolina State University	<b>2019</b>
<b>M.A.</b>	Statistics	North Carolina State University	<b>2016</b>
<b>B.S.</b>	Environment, Ecology Minors: Geology, Statistics	University of Michigan - Ann Arbor	<b>2013</b>

## RESEARCH EXPERIENCE

*Collaborator* May 2016 - Present

Healthy Birth, Growth, and Development (HBGD) group

### **Bill & Melinda Gates Foundation**

- Ongoing project studying the effects of gestational diabetes treatment on birth outcome using matching analysis
- Ongoing project using functional data to develop methods for monitoring child growth and identifying growth faltering

*Graduate Industrial Trainee*

May 2015 - May 2016

### **International Pharmaceutical Aerosol Consortium on Regulation & Science**

Supervisor: Dr. Beth Morgan, GlaxoSmithKline

- Member of the Population Bioequivalence (PBE) working group, documenting properties of the FDA's PBE approach for aerosol (asthma) medications
- Developed a new statistical model for aerosol (asthma) medication output based on large industry database
- Designed a simulation study and graphics in SAS for forthcoming technical report and academic publication
- Prepared and presented weekly-update teleconference meetings to working group

*Fulbright Student Scholar*

Aug 2013 - Apr 2014

### **Northwest University, Xian, China**

Advisors: Dr. Songtao Guo, Northwest University

- Developed research project studying nutrition of captive golden-snub nosed monkeys in China
- Conducted fieldwork observing captive monkeys and labwork analyzing chemical composition of monkey foods
- Results prepared with Chinese collaborators to be published

*Paleobotany Research Assistant*

Aug 2009 - Apr 2013

### **University of Michigan - Ann Arbor**

Advisors: Dr. Selena Smith & Dr. Nathan Sheldon

- Project: Phytolith variability in *Zingiberales*  
Published in *Palaeogeography, Palaeoclimatology, Palaeoecology*
- Project: Grassland spread in Miocene Montana using phytoliths and soil isotope records  
Published in *Palaeogeography, Palaeoclimatology, Palaeoecology*
- Created database of modern phytoliths (plant microfossils); conducted labwork processing ancient soil phytoliths and isotopes

## TEACHING EXPERIENCE

Teaching Assistant

Aug 2014 - May 2015

North Carolina State University

- Grader, STAT 311: Introduction to Statistics (Spring 2015)
- Lab Instructor, COS 100: Perspectives in Learning (Fall 2014)

Environment (PitE) Peer Advisor

Jan 2011 - May 2013

University of Michigan - Ann Arbor

- Advised current and prospective students on academic progress, lead orientation sessions
- Organized and staffed department events, including program recruitment and guest lectures

## AWARDS

- S-STEM awardee, for student development **2014**  
North Carolina State University, National Science Foundation
- Fulbright Student Scholarship (China) **2013**  
Fulbright Program, U.S. State Department
- International Institute Fellowship (\$5000), for thesis research **2012**  
University of Michigan - Ann Arbor
- Jerome Fine Honors Grant (\$350), for research equipment **2012**  
University of Michigan - Ann Arbor

## PUBLICATIONS

- Morgan BE, **Chen ST**, Lyapustina S, Christopher D, et al. (in prep) PBE test assessment: First results from a blinded IPAC-RS MDI database and its simulation approach.
- **Chen ST**, et al. (in review) Nutrient Balancing by Captive Golden Snub-nosed Monkeys (*Rhinopithecus roxellana*). *Int. Journal of Primatology*.
- **Chen ST**, Smith SY, Sheldon NS, Stromberg CAE (2015) Regional-scale variability in the spread of grasslands in the late Miocene. *Palaeogeog., Palaeoclimato., Palaeoeco.* 437: 42-54.
- **Chen ST**, Smith SY (2013) Phytolith Variability in Zingiberales: A tool for the reconstruction of past tropical vegetation. *Palaeogeog., Palaeoclimato., Palaeoeco.* 370: 1-12.
- **Chen ST** (2013) Nutritional Ecology of Captive Golden Snub-nosed Monkeys. Undergraduate Honors Thesis, University of Michigan, April 2013.

## SKILLS

**Programming:** R, SAS, Python, SPSS

**Languages:** English (native), Mandarin Chinese (fluent)

## RELEVANT COURSEWORK

ST 790: Longitudinal Data Analysis	Spring 2016
ST 793: Advanced Statistical Inference	Spring 2016
ST 590: Statistical Practice (Consulting)	Spring 2016
ST 711: Design of Experiments	Fall 2015
ST 758: Computing for Statistical Research	Fall 2015
ST 733: Applied Spatial Statistics	Spring 2015
Undergraduate coursework in Genetics, Biochemistry, Ecology & Evolution	

## EXTRA-CURRICULAR ACTIVITIES

Statistics Graduate Student Association	Treasurer	2016 - Present
Wake County Animal Center	Volunteer Dog-Walker	2014 - Present
Humane Society of Huron Valley	Volunteer Dog-Walker	2010 - 2013
Michigan Ice Carving Team	President	2012 - 2013
	Member	2010 - 2013