Stephanie T. Chen
North Carolina State University
Department of Statistics
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Citizenship: USA

EDUCATION

Ph.D.	Statistics	North Carolina State University	**2019**
	Thesis: Model Testing for Functional Data		
M.A.	Statistics	North Carolina State University	**2016**
B.S.	Environment (honors), Ecology	University of Michigan - Ann Arbor	**2013**
	Minors: Geology, Statistics		

EXPERIENCE

Graduate Industrial Trainee　　　　　　　　　　　May 2017 - Present; May 2015 - May 2016
International Pharmaceutical Aerosol Consortium on Regulation & Science
Supervisor: Dr. Beth Morgan, Ph.D., Pearl Therapeutics

- Developed new data-driven model for variability of inhaled/nasal products

- Designed and conducted comprehensive SAS simulation study of FDA's PBE approach

- Led weekly teleconference for industry working group; wrote technical report and academic paper for publication; prepared and will present upcoming webinar to industry

Collaborator; Fetal Growth, Pregnancy & Newborn Outcomes group　　　May 2016 - Present
Healthy Birth, Growth, and Development knowledge initiative (HBGDki)
Bill & Melinda Gates Foundation

- Prepared report of fetal growth and birth outcomes across 20 developing countries

- Collaborative projects modeling ultrasound measurements using longitudinal/nonparametric methods, and impact of gestational diabetes using propensity score matching

Fulbright Student Scholar　　　　　　　　　　　　　　　　　　　Aug 2013 - Apr 2014
Northwest University, Xian, China
Advisor: Dr. Songtao Guo

- Designed and conducted nutritional study of captive golden-snub nosed monkeys at 2 Chinese zoos including observational fieldwork and labwork

- Publication written with Chinese collaborators submitted to *Int. J. of Primatology*

Paleobotany Research Assistant　　　　　　　　　　　　　　　　Aug 2009 - Apr 2013
University of Michigan - Ann Arbor
Advisors: Dr. Selena Smith & Dr. Nathan Sheldon

- Processed and analyzed ancient soil phytoliths and isotopes for environmental reconstruction

- Two first-author presentations and publications in *Palaeogeog., Palaeoclimato., Palaeoeco.*

TEACHING

Teaching Assistant　　　　　　　　　　　　　　　　　　　　　Aug 2014 - May 2015
North Carolina State University

- Grader STAT 311: Introduction to Statistics

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 recruitment and guest lectures

AWARDS

- S-STEM awardee, for student development **2014**
  North Carolina State University, National Science Foundation

- Fulbright Student Scholarship (China), for research and collaboration **2013**
  Fulbright Program, U.S. State Department

- International Institute Fellowship ($5000), for honors thesis research **2012**
  University of Michigan - Ann Arbor

PUBLICATIONS

- **Chen ST**, Xiao L, Staicu AM (submitted) A Bootstrap-based Goodness-of-Fit Test of Covariance for Functional Data. *Biometrics.*

- Morgan BE, **Chen ST**, et al. (2018) Performance of the Population Bioequivalence (PBE) Statistical Test Using an IPAC-RS Database of Delivered Dose from Metered Dose Inhalers. *AAPS PharmSciTech.*

- **Chen ST**, et al. (submitted) 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. (received Highest Honors)

PRESENTATIONS

- **Chen ST**, Xiao L, Staicu AM (2017) Testing the Adequacy of Linear Mixed Effects Models. Joint Statistical Meetings, Baltimore, MD.

- **Chen ST**, Xiao L (2016) Testing the Adequacy of Linear Mixed Effects Models. Functional Data Reading Group, Raleigh, NC.

- **Chen ST**, Smith SY, Sheldon NS, Stromberg CAE (2012) Tracking the Spread of Ancient Grasslands. Geological Society of America, Charlotte, NC.

- **Chen ST**, Smith SY (2011) Phytolith Variability in Zingiberales: A Tool for the Reconstruction of Past Tropical Vegetation. Geological Society of America, Minneapolis, MN.

SKILLS

Programming: R, SAS, Python, SPSS, JMP, LaTex
Languages: English (native), Mandarin Chinese (fluent)

RELEVANT COURSEWORK

Survival Analysis, Missing Data, Multivariate Statistics, Bayesian Statistics, Statistical Practice (Consulting), Longitudinal Data, Advanced Inference, Statistical Computing, Design of Experiments, Spatial Statistics, Research Ethics

EXTRA-CURRICULAR ACTIVITIES

Functional Data Reading Group	Webmaster	2017 - Present
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	Member/President	2010 - 2013/2012-2013