Stephanie T. Chen
Eli Lilly and Company
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EDUCATION

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

EXPERIENCE

Research Scientist, Advanced Analytics & Data Science – US Commercial June 2019 - Present
Eli Lilly and Company

- Provide advanced analytics support to brand and marketing teams in Biomedicines, covering project planning, data collection, analysis, and presentation
- Methodology used includes machine learning, causal inference, designed experiments, optimization, generalized linear models, and segmentation implemented in R

Graduate Summer Intern May 2018 - July 2018
Sandia National Laboratories

- Supported industrial and national security projects using functional data methods and data visualization, including presentations and written reports for customers

Science Advisor (previously Graduate Industrial Trainee) May 2017 - Present; 2015 - 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; prepared technical reports and manuscripts for publication; presented internal IPAC-RS webinar

Collaborator; Fetal Growth, Pregnancy & Newborn Outcomes group May 2016 - Dec 2018
HBGDki initiative, Bill & Melinda Gates Foundation

- Collaborated on projects modeling ultrasound measurements using 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 two Chinese zoos including observational fieldwork and labwork. Publication with Chinese collaborators in *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 2018 - Present; Aug 2014 - May 2015
North Carolina State University

- ST 502: Statistical Inference II; lead practice sessions, created solutions, graded homework
- STAT 311: Introduction to Statistics; held office hours, graded homework

Environment (PitE) Peer Advisor Jan 2011 - May 2013
University of Michigan - Ann Arbor

- Advised current and prospective students on academic progress, led orientation sessions, and organized & staffed department events

AWARDS

- Certificate of Appreciation, for outstanding technical work **2018**
  International Pharmaceutical Aerosol Consortium on Regulation & Science
- 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
- PitE Individual Grant ($500), for conference travel **2012**
  University of Michigan - Ann Arbor

PUBLICATIONS

- **Chen ST**, Xiao L, Staicu AM (in review) Model Testing for Generalized Scalar-on-Function Linear Models. *Technometrics.*
- Feng Y, Xiao L, Li C, **Chen ST**, Ohuma EO (2020) Correlation models for monitoring fetal growth. *Statistical Methods in Medical Research.* https://doi.org/10.1177/0962280220905623.
- **Chen ST**, Morgan BE, et al. (2019) Performance of the Population Bioequivalence Test with Impactor-Sized Mass Data. *AAPS PharmSciTech.*
- **Chen ST**, Xiao L, Staicu AM (2019) A Smoothing-based Goodness-of-Fit Test of Covariance for Functional Data. *Biometrics.* https://doi.org/10.1111/biom.13005.
- **Chen ST**, Luo X., et al. (2018) Nutrient Balancing by Captive Golden Snub-nosed Monkeys (Rhinopithecus roxellana). *Int. J. Primatology.* 39: 1124-1138.
- 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.* 19: 1410-1425.
- **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.

SKILLS

Programming: R (dplyr, ggplot2, Shiny, Markdown), SAS, JMP, Python, SPSS, LaTex
Languages: English (native), Mandarin Chinese (fluent)

EXTRA-CURRICULAR ACTIVITIES

Indianapolis Animal Care Services	Volunteer Dog-Walker	2019 - Present
WCAC (Raleigh, NC) & HSHV (Ann Arbor, MI)	Volunteer Dog-Walker	2010 - 2019
Statistics Graduate Student Association	Treasurer	2016 - 2018
Michigan Ice Carving Team	Member/President	2010 - 2013/2012-2013